STR-DE445/DE545/SE501

SERVICE MANUAL

US Model
STR-DE445/DE545/SE501
Canadian Model
AEP Model
UK Model
STR-DE445/DE545
E Model
Australian Model
Chinese Model
PX Model
STR-DE545

Photo: STR-DE445

Dolby Laboratories Licensing Corporation.
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SPECIFICATIONS

AUDIO POWER SPECIFICATIONS
POWER OUTPUT AND TOTAL HARMONIC DISTORTION
With 8 Ω loads, both channels driven, from 20 – 20,000 Hz; rated 100[a] W per channel minimum RMS power, with no more than 0.09% total harmonic distortion from 250 mW to rated output (US model only).
STR-DE445:
a) 80 W

Amplifier section

Rated Power Output at Stereo mode
- US model:
  (8 Ω 20 Hz – 20 kHz, THD 0.09 %)
- EXCEPT US:
  (8 Ω 1 kHz, THD 0.7 %)
- STR-DE545/SE501:
  100 W + 100 W
- STR-DE445:
  80 W + 80 W

Reference Power Output
(8Ω at 1 kHz, THD 0.7 %)
- STR-DE545/SE501:
  - Front: 100 W + 100 W
  - Center: 100 W
  - Rear: 100 W + 100 W
- STR-DE445:
  - Front: 80 W + 80 W
  - Center: 80 W
  - Rear: 80 W + 80 W

Frequency response
CD, MD/TAPE, DVD/LD, TV/SAT, VIDEO, AUX:
10 Hz – 50 kHz +0.5/–2 dB
(with sound field, tone, and bass boost bypassed)

Inputs (Analog) 5.1 CH INPUT, CD, DVD/LD, MD/TAPE, TV/SAT, VIDEO, AUX:
- Sensitivity: 250 mV
- Impedance: 50 kΩ
- S/N[b]: 96 dB (A, 250 mV[c])

b) Input short.
c) Weighted nework, input level.

Inputs (Digital) DVD/LD (coaxial):
- Sensitivity: —
- Impedance: 75 Ω
- S/N: 100 dB (A, 20 kHz LPF)

DVD/LD, TV/SAT* (Optical):
- Sensitivity: —
- Impedance: —
- S/N: 100 dB (A, 20 kHz LPF)

**) STR-DE545 and STR-SE501 only.*

Outputs MD/TAPE, (REC OUT); VIDEO (AUDIO OUT):
- Voltage: 250 mV,
- Impedance: 10 kΩ

SUB WOOFER:
- Voltage: 2 V
- Impedance: 1 kΩ

PHONES:
- Accepts low- and high-impedance headphones

BASS BOOST +6 dB at 70 Hz

TONE ±6 dB at 100 Hz and 10 kHz

Sampling Frequency
48 kHz

FM tuner section

Tuning range 87.5 – 108.0 MHz

Antenna terminals 75 Ω, unbalanced

Sensitivity Mono: 18.3 dBf, 2.2 µV/75 Ω
Stereo: 38.3 dBf, 22.5 µV/75 Ω

Usable sensitivity 11.2 dBf, 1 µV/75 Ω

S/N Mono: 76 dB
Stereo: 70 dB

Harmonic distortion at 1 kHz
Mono: 0.3 %
Stereo: 0.5 %

Separation 45 dB at 1 kHz

Frequency response
30 Hz – 15 kHz
+0.5/–2 dB

Selectivity 60 dB at 400 kHz

— Continued on next page —

FM STEREO FM-AM RECEIVER

SONY®

AM tuner section

Tuning range — With 10-kHz tuning scale: 530 – 1,710 kHz[d]
With 9-kHz tuning scale: 531 – 1,710 kHz[d]

Antenna — Loop antenna

Usable sensitivity — 50dB/m (at 1,000kHz or 999kHz)

S/N — 54dB (at 50mV/m)

Harmonic distortion — 0.5% (50mV/m, 400kHz)

Selectivity — At 9kHz: 35dB
At 10kHz: 40dB

d) You can change the AM tuning interval to 9kHz. After tuning in any AM station, turn off the receiver. Hold down the TUNING + button and press the I/⏻ button. All preset stations will be erased when you change the tuning interval. To reset the scale to 10 kHz, repeat the procedure.

Video section

Inputs — Video: 1Vp-p 75Ω
S-video*:
Y: 1Vp-p 75Ω
C: 0.286Vp-p 75Ω

Outputs — Video: 1Vp-p 75Ω
S-video*:
Y: 1Vp-p 75Ω
C: 0.286Vp-p 75Ω

** STR-DE545 and STR-SE501 only.*

General

System — Tuner section:
PLL quartz-locked digital synthesizer system
Preamplifier section:
Low-noise NF type equalizer
Power amplifier section:
Pure-complementary SEPP

Power requirements — US, Canadian model: 120V AC, 60Hz
Taiwan model: 110V AC, 60Hz
Chinese, Singapore, Malaysia model:
220 – 230V AC, 50/60Hz
AEP, UK, CIS model: 230V AC, 50/60Hz
Australian model: 240V AC, 50/60Hz
E, PX model: 120V or 220V or 240V AC, 50/60Hz

Power consumption — STR-DE545/SE501:
US model: 190W
AEP, UK model: 220W
STR-DE445:
US model: 185W
AEP, UK model: 160W

AC outlets (STR-DE545 and STR-SE501 only)
US model:
1switched, total 120W/1A Max
EXCEPT US:
1switched, max 100W

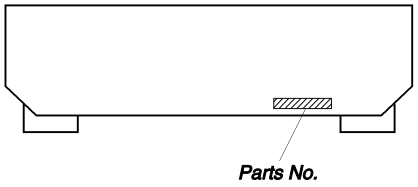
Dimensions — 430 × 303 × 157 mm
(17 × 12 × 6 1/4 inches)
including projecting parts and controls

Mass (Aporox.) — STR-DE545: 7.9kg (17 lbs. 7 oz)
STR-DE445: 7.7kg (16 lbs. 16 oz)
STR-SE501: 8.2kg (18 lbs. 2 oz)

Supplid accessories — FM wire antenna (1)
AM loop antenna (1)
R6 (size-AA) batteries (2)
STR-DE545 and STR-SE501 only
Remote Commander RM-PP404 (remote) (1)
Operating instructions of the remote (1)
Operating instructions of CONTROLA1 II (1)
STR-DE445 only
Remote Commander RM-U304 (remote) (1)

Design and specifications are subject to change without notice.

MODEL IDENTIFICATION
— BACK PANEL —



MODEL	PARTS No.
DE545: US model	4-226-802-0□
DE545: Canadian model	4-226-802-1□
DE545: Australian model	4-226-802-2□
DE545: E, PX model	4-226-802-3□
DE545: Malaysia, Singapore model	4-226-802-4□
DE545: Chinese model	4-226-802-5□
DE545: AEP, UK, CIS model	4-226-802-6□
DE545: Taiwan model	4-226-802-7□
DE445: US model	4-226-808-0□
DE445: Canadian model	4-226-808-1□
DE445: AEP, UK model	4-226-808-2□
DE445: CIS model	4-226-808-3□
SE501: US model	4-227-063-0□

SAFETY CHECK-OUT
(US model)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer: Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.

2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.

3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

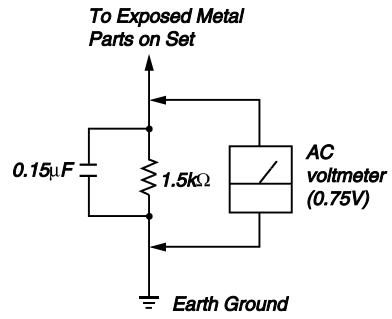


Fig. A. Using an AC voltmeter to check AC leakage.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈSES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPÉMENTS PUBLIÉS PAR SONY.

与安全有关的零部件须知

在原理图上用阴影及 ⚠ 标记来识别的零部件在安全操作上是具有关键性的。这些零部件要用本手册中所示的部件号对应的索尼零部件进行更换。

在安全操作上具有关键性的电路调整与索尼公司出版的维修手册完全一致。在更换关键零部件时或怀疑动作失常时，请进行这些调整操作。

SECTION 1
GENERAL

FRONT PANEL

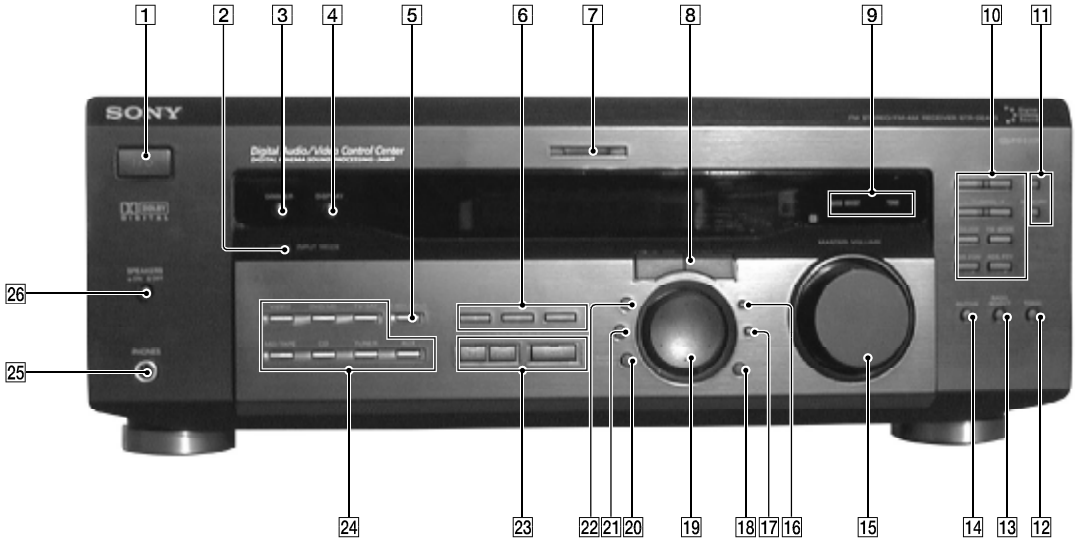


PHOTO: STR-DE445

1 I/⏻ button
2 INPUT MODE button
3 DIMMER button
4 DISPLAY button
5 5.1CH INPUT button
6 CHINEMA STUDIO A button
CHINEMA STUDIO B button
CHINEMA STUDIO C button
7 MULTI CHANNEL DECODING indicator
8 <, > buttons
9 BASS BOOST indicator
TONE indicator
10 PRESET TUNING +/– buttons
TUNING +/– buttons
FM/AM button
FM MODE button
RDS EON button (AEP, UK, CIS model)
RDS PTY button (AEP, UK, CIS model)
11 SHIFT button
MEMORY button
12 TONE button
13 BASS BOOST button
14 MUTING button
15 MASTER VOLUME knob
16 SET UP button
17 NAME button
18 ENTER button
19 Jog dial
20 BASS/TREBLE button
21 SUR button
22 LEVEL button
23 A.F.D button/indicator
2CH button/indicator
MODE button/indicator
24 VIDEO button
DVD/LD button
TV/SAT button
MD/TAPE button
CD button
TUNER button
AUX button
25 PHONES jack
26 SPEAKER A button
SPEAKER B button (DE545, SE501 model)

REAR PANEL

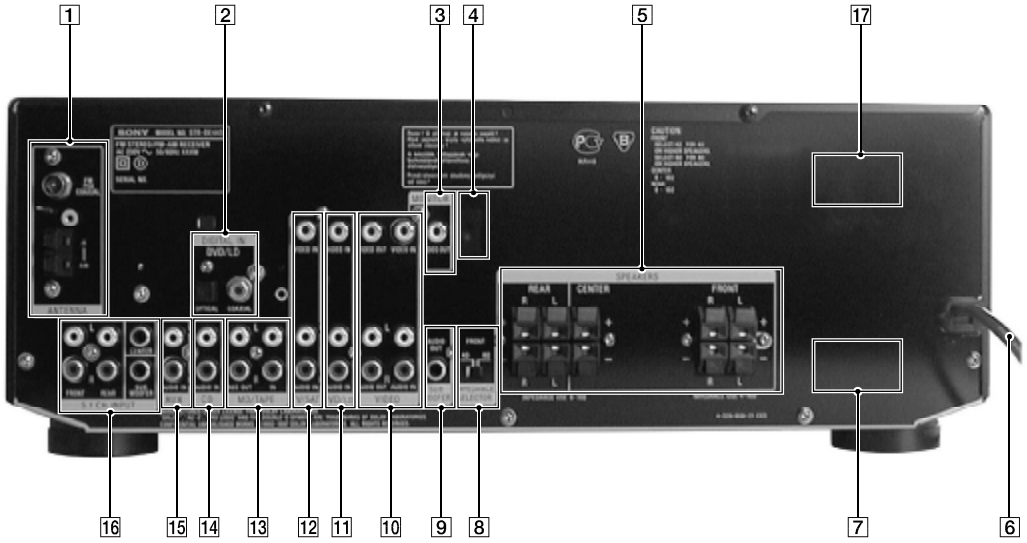


PHOTO: STR-DE445

1 ANTENNA terminal
2 DIGITAL IN jack
  TV/SAT OPTICAL (DE545, SE501 model)
  DVD/LD OPTICAL (DE545, SE501 model) COAXIAL
3 MONITOR jack
  VIDEO OUT
  S-VIDEO OUT (DE545, SE501 model)
4 CTRL A1 II jack (DE545, SE501 model)
5 SPEAKERS terminal
  REAR
  CENTER
  FRONT A
  FRONT B (DE545, SE501 model)
6 AC power cord
7 AC OUTLET (DE545, SE501 model)
8 IMPEDANCE SELECTOR switch (DE545, SE501 model)
9 SUB WOOFER jack
10 VIDEO jack
  VIDEO IN/OUT
  AUDIO IN/OUT
11 DVD/LD jack
  VIDEO IN
  S-VIDEO IN (DE545, SE501 model)
  AUDIO IN
12 TV/SAT jack
  VIDEO IN
  AUDIO IN
13 MD/TAPE jack
14 CD jack
15 AUX jack
16 5.1CH INPUT jack
  FRONT
  REAR
  CENTER
  SUB WOOFER
17 VOLTAGE SELECTOR switch (E, PX model)

SECTION 2
TEST MODE

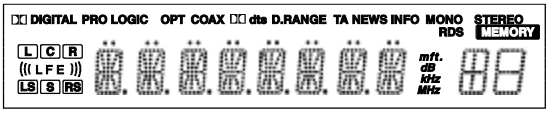
SOFTWARE VERSION DISPLAY MODE

* The software version is displayed.
* Procedure:
  While depressing the TUNER and the VIDEO buttons simultaneously, press the power [I/⏻] button to turn on the main power. The model name, destination and the software version are displayed.

FLUORESCENT INDICATOR TUBE TEST MODE

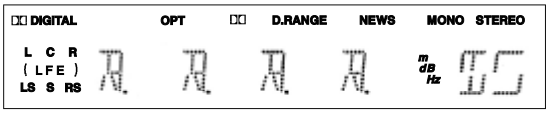
* All fluorescent segments are tested. When this test is activated, all segments turn on at the same time, then each segment turns on one after another.
* Procedure:
  While depressing the TV/SAT and the CD buttons simultaneously, press the power [I/⏻] button to turn on the main power.

1. All segments turn on.



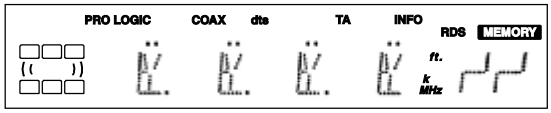
   A.F.D, LEVEL, BASS/TREBLE, SET UP and MUTING LED turn on.

2. Press the VIDEO button, confirm display



   2CH, SUR, NAME and JOG dial LED turn on.

3. Press the VIDEO button, confirm display



   MODE, BASS BOOST, TONE and Digital Cinema Sound LED turn on.

4. Press the VIDEO button, All segments turn off.

5. Every pressing of the VIDEO button turns on each segment one after another in the following order.
   (Not only the VIDEO button, but also the other buttons sach as DVD/LD, TV/SAT, MD/TAPE, CD, TUNER, AUX can be used.)

FACTORY SET MODE

* All preset contents are reset to the default setting.
* Procedure:
  While depressing the VIDEO and the CD buttons simultaneously, press the power [I/⏻] button to turn on the main power. The message FACTORY appears and the present contents are reset to the default values.

ALL CLEAR MODE

* All preset contents are cleared when this mode is activated. Use this mode before returning the product to clients upon completion of repair.
* Procedure:
  While depressing the TUNER and the MD/TAPE buttons simultaneously, press the power [I/⏻] button to turn on the main power. Alternatively, press I/⏻ more than 4S. The message ALL CLEAR appears and initialization is performed.

SURROUND CLEAR MODE

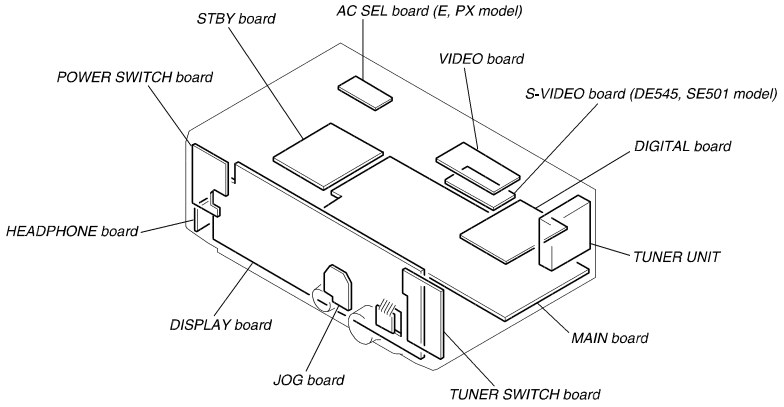
* The preset sound field is cleared when this mode is activated. Use this mode before returning the product to clients upon completion of repair.
* Procedure:
  While depressing the SOUND FIELD MODE button, press the power [I/⏻] button to turn on the main power. The message SURR CLR appears and initialization is performed.

AM CHANNEL STEP 9 KHZ/10 KHZ SELECTION MODE (US, Canadian, E, PX model)

* Either the 9 kHz step or 10 kHz step can be selected for the AM channel step.
* Procedure:
  Set the FUNCTION to AM. Turn off the main power.
  While depressing the TUNING+ button or the PRESET+ button, press the power [I/⏻] button to turn on the main power. Either the message AM 9k STEP or AM 10k STEP appears. Select the desired step.

SECTION 3
DIAGRAMS

3-1. CIRCUIT BOARDS LOCATION



THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this necessary note is printed in each block.)

For schematic diagrams.
Note:

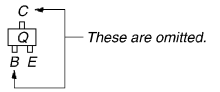
- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.
- % : indicates tolerance.
- △ : internal component.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation.

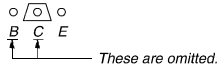
Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	**Note:** Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
以阴影和 ⚠ 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。	

- B+ : B+ Line.
- B− : B− Line.
- : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  No mark : FM
- Voltages are taken with a VOM (input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
- Circled numbers refer to waveforms.
- Signal path.
  : FM
  : CD
  : digital out
- Abbreviation
  CND : Canadian model
  AUS : Australian model
  CH : Chinese model
  MY : Malaysia model
  SP : Singapore model
  TW : Taiwan model

For printed wiring boards.
Note:

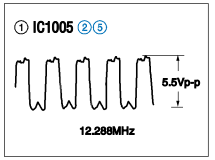
- : parts extracted from the component side.
- ○ : Through hole.
- △ : internal component.
- : Pattern from the side which enables seeing.



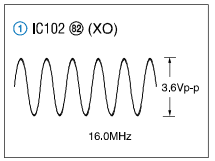


• Waveform

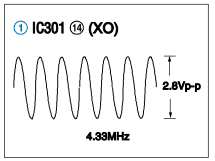
DIGITAL Board



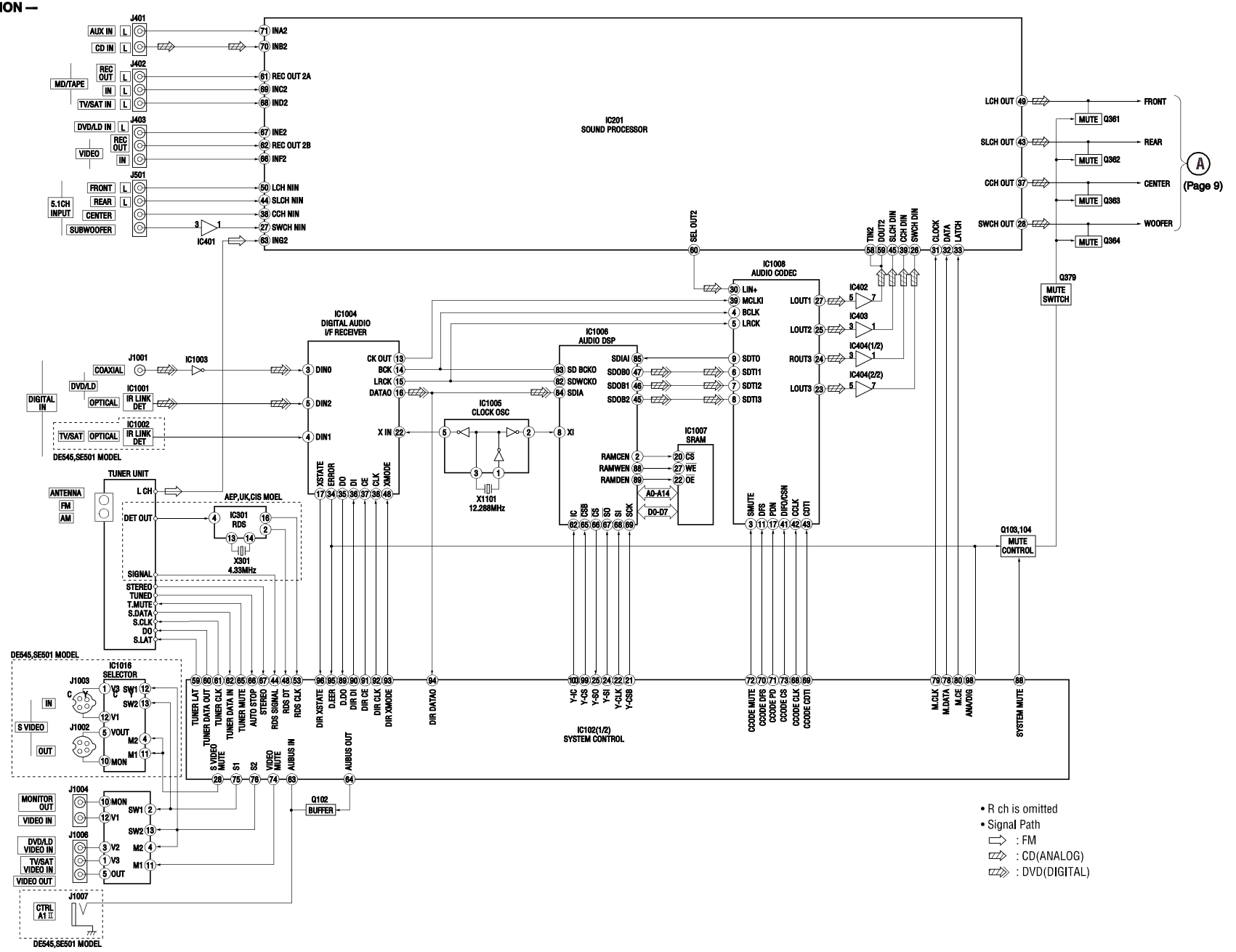
DISPLAY Board



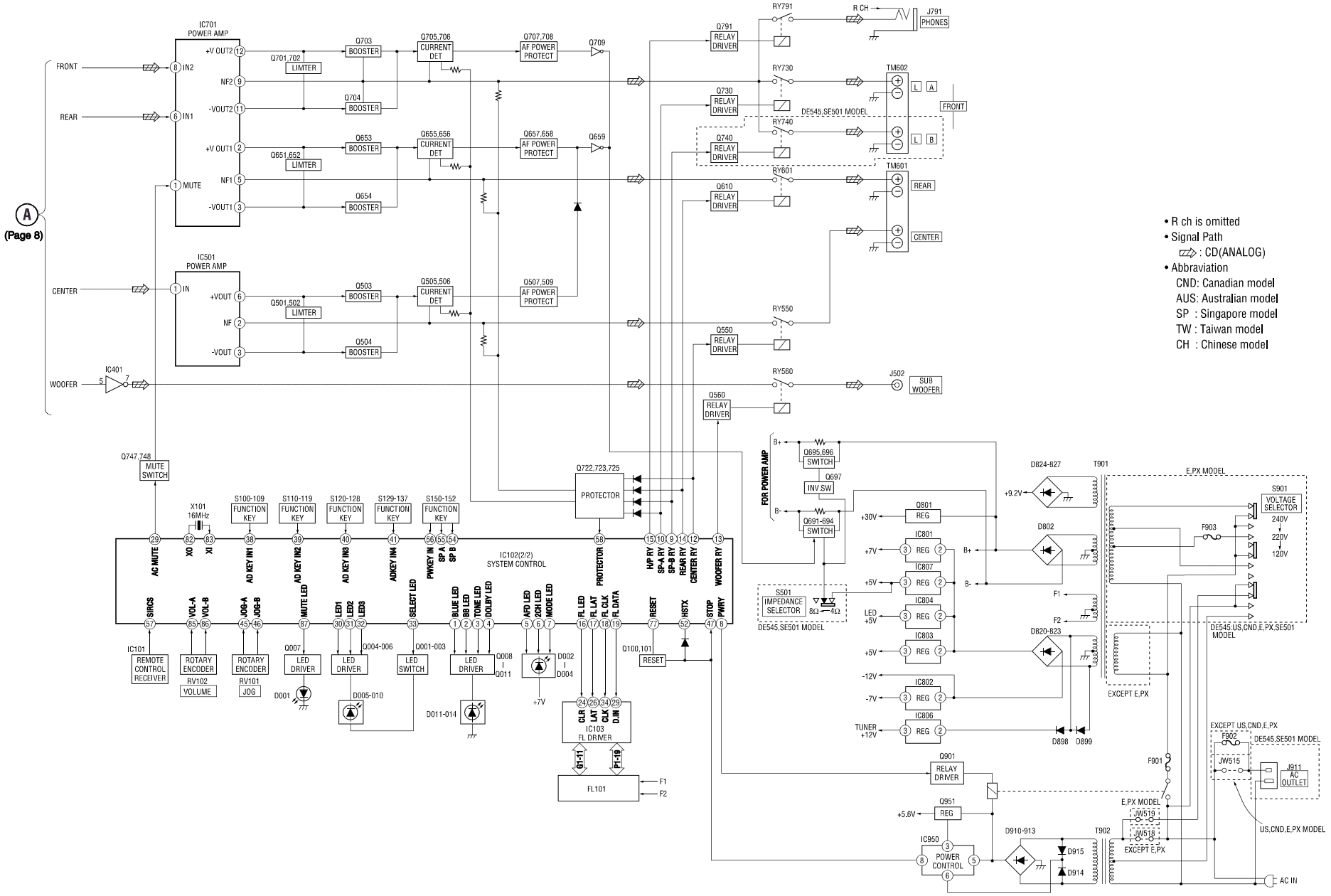
MAIN Board



3-2. BLOCK DIAGRAMS
— MAIN SECTION —



— POWER SECTION —

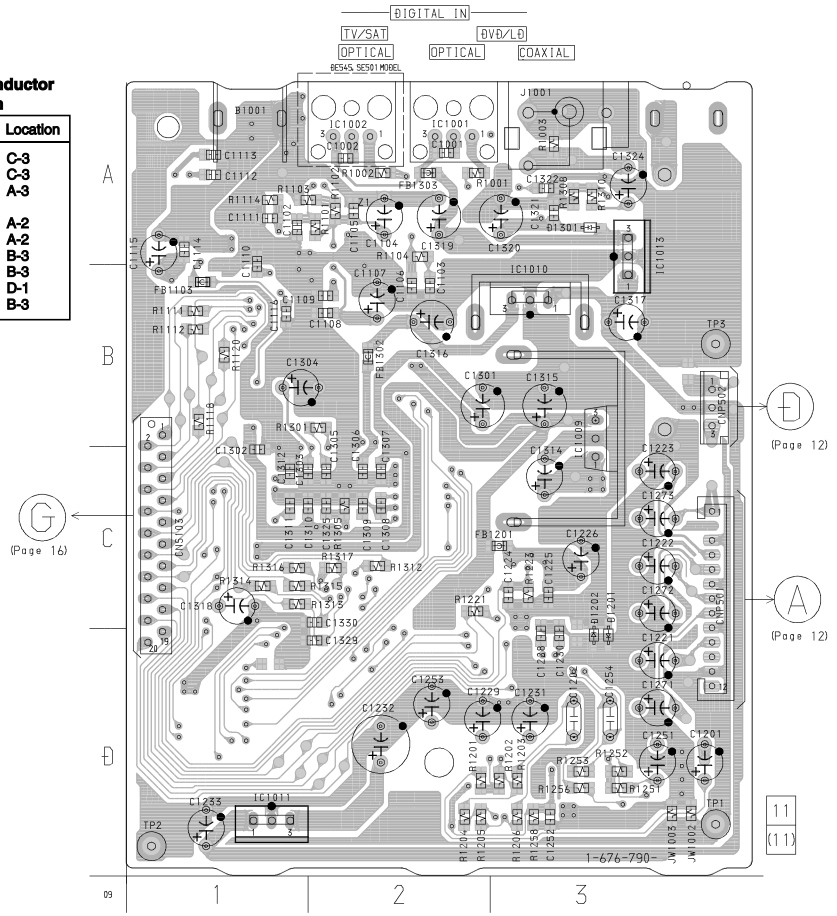


- R ch is omitted
- Signal Path
  ⇨ : CD(ANALOG)
- Abbreviation
  CND: Canadian model
  AUS: Australian model
  SP : Singapore model
  TW : Taiwan model
  CH : Chinese model

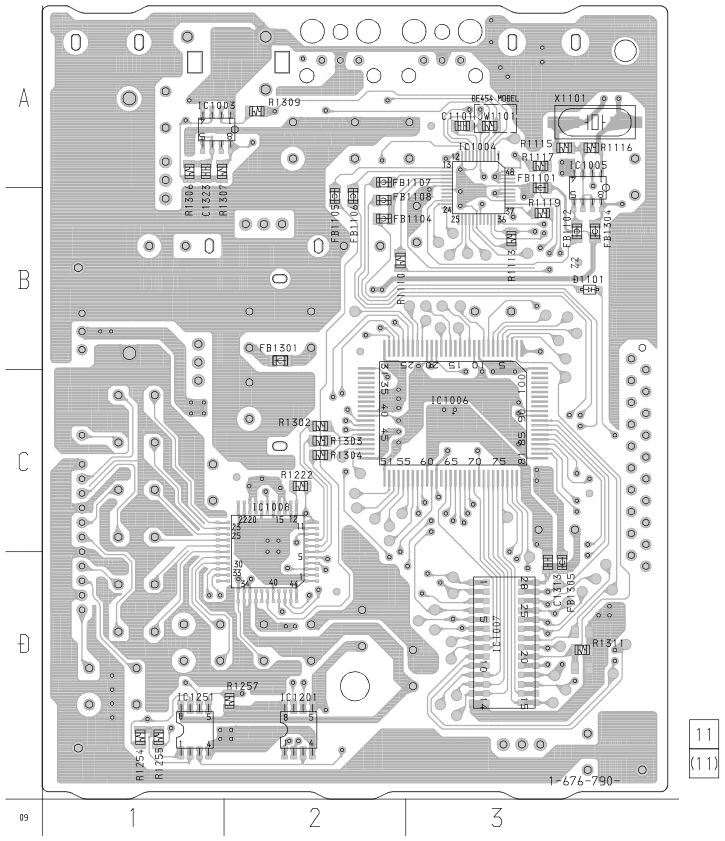
3-3. PRINTED WIRING BOARD — DIGITAL SECTION —

• See page 7 for Circuit Boards Location.

【DIGITAL BOARD】(SIDE A)



【DIGITAL BOARD】(SIDE B)



• **Semiconductor Location**

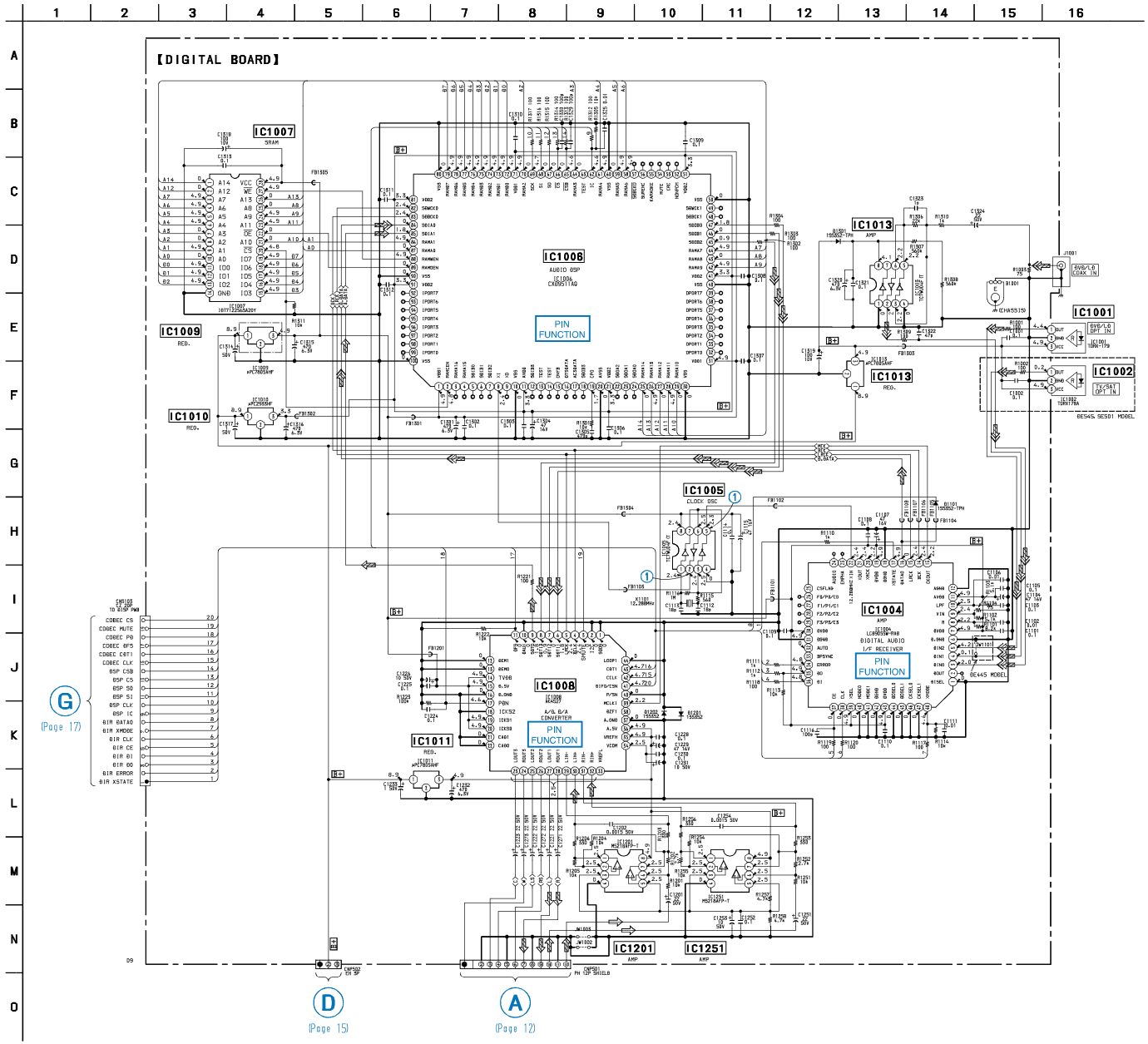
Ref. No.	Location
D1201	C-3
D1202	C-3
D1301	A-3
IC1001	A-2
IC1002	A-2
IC1009	B-3
IC1010	B-3
IC1011	D-1
IC1013	B-3

• **Semiconductor Location**

Ref. No.	Location
D1101	B-3
IC1003	A-1
IC1004	A-3
IC1005	A-3
IC1006	C-3
IC1007	D-3
IC1008	C-2
IC1201	D-2
IC1251	D-1

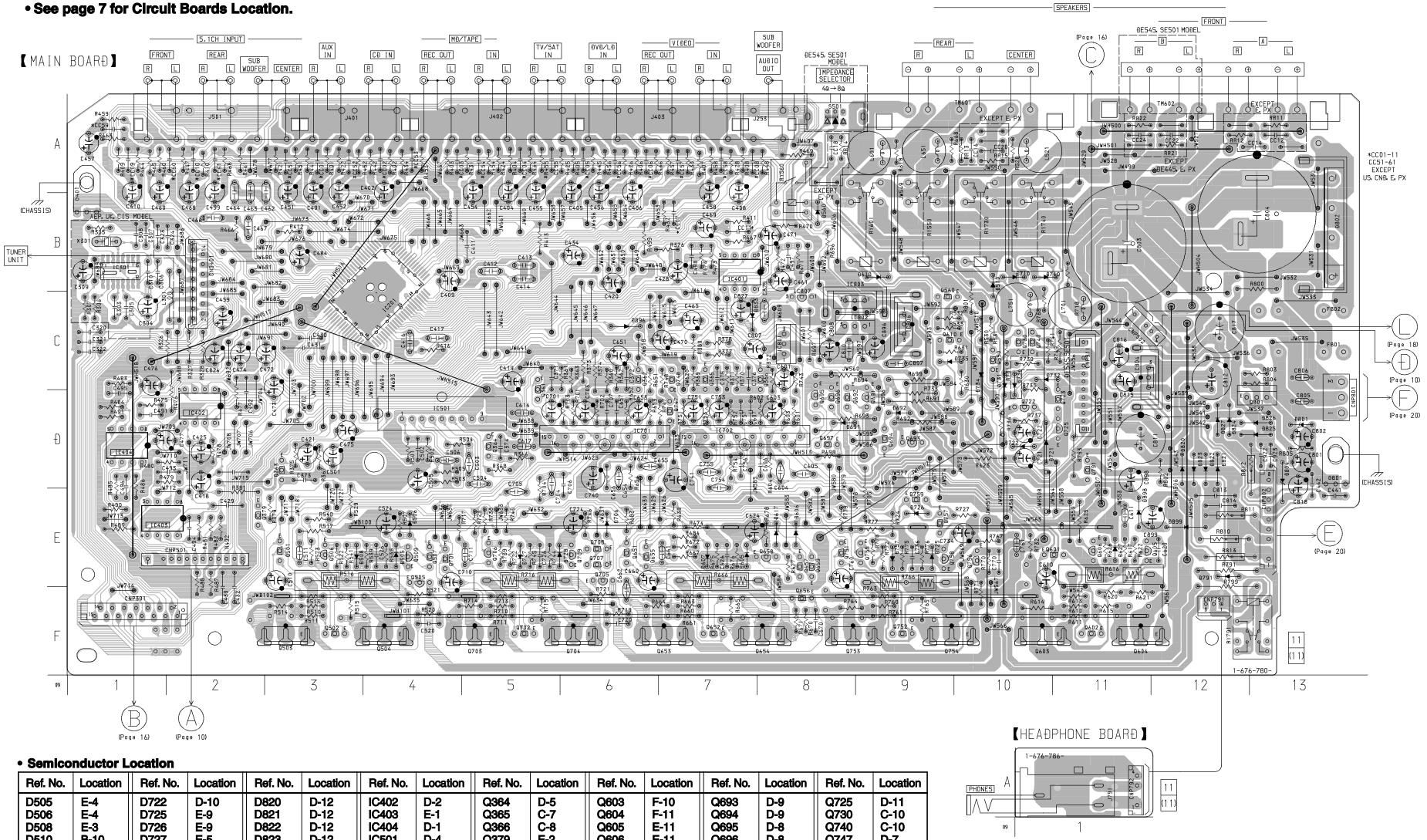
3-4. SCHEMATIC DIAGRAM — DIGITAL SECTION —

- **See page 7 for Waveforms.**
- **See page 21 for IC Pin Functions.**



3-5. PRINTED WIRING BOARD — MAIN SECTION —

• See page 7 for Circuit Boards Location.

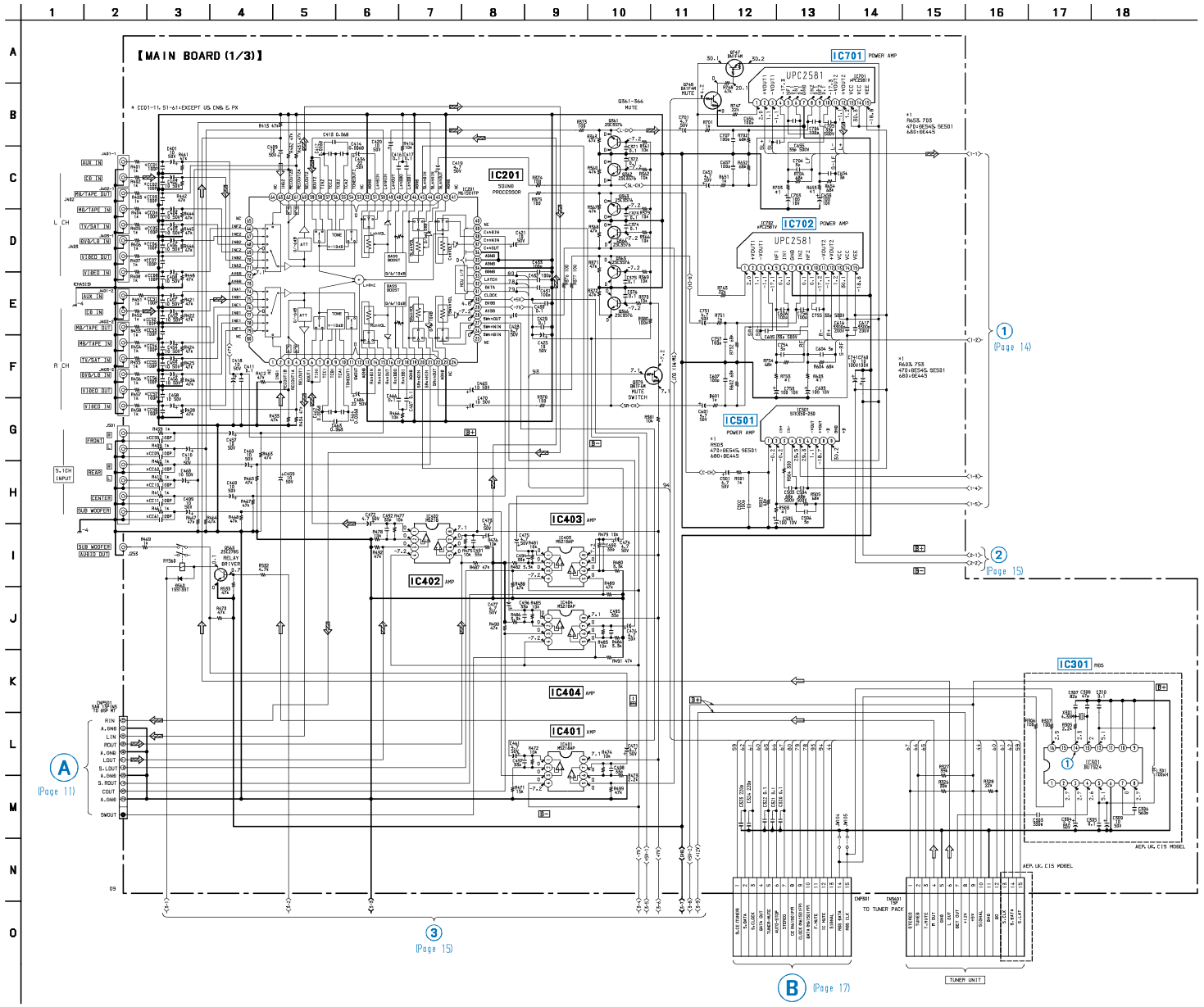


• Semiconductor Location

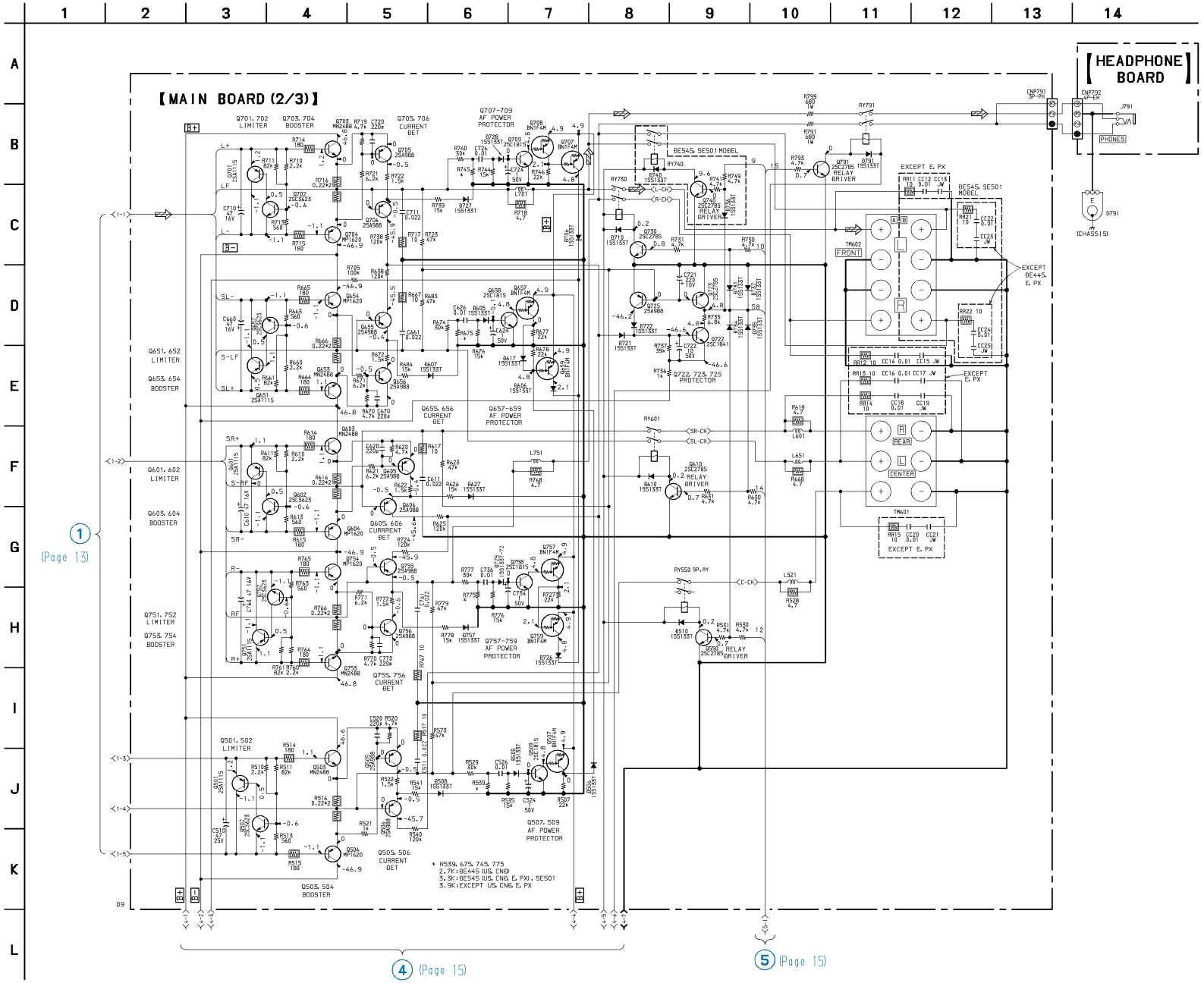
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D505	E-4	D722	D-10	D820	D-12	IC402	D-2	Q364	D-5	Q603	F-10	Q693	D-9	Q725	D-11
D506	E-4	D725	E-9	D821	D-12	IC403	E-1	Q365	C-7	Q604	F-11	Q694	D-9	Q730	C-10
D508	E-3	D726	E-9	D822	D-12	IC404	D-1	Q366	C-8	Q605	E-11	Q695	D-8	Q740	C-10
D510	B-10	D727	E-5	D823	D-12	IC501	D-4	Q379	E-2	Q606	E-11	Q696	D-8	Q747	D-7
D560	B-8	D728	E-5	D824	D-12	IC701	D-6	Q501	E-3	Q610	C-9	Q697	D-8	Q748	C-7
D605	E-7	D731	C-10	D825	D-13	IC702	D-7	Q502	F-3	Q651	E-6	Q701	E-4	Q751	E-8
D606	E-8	D732	C-11	D826	D-13	IC801	C-8	Q503	F-3	Q652	F-7	Q702	F-5	Q752	E-9
D607	E-7	D734	D-10	D827	D-12	IC802	C-9	Q504	F-4	Q653	F-7	Q703	F-5	Q753	F-8
D610	B-9	D735	C-9	D833	C-7	IC803	C-9	Q505	E-4	Q654	F-8	Q704	F-6	Q754	F-9
D617	E-8	D736	C-10	D896	C-6	IC804	C-11	Q506	E-3	Q655	E-6	Q705	E-6	Q755	E-9
D627	E-11	D740	B-10	D898	E-11	IC806	C-9	Q507	E-4	Q656	F-8	Q706	E-5	Q756	E-10
D691	D-8	D757	E-9	D899	E-12	IC807	C-8	Q509	E-4	Q657	E-8	Q707	E-6	Q757	E-9
D692	D-9	D791	E-12					Q550	C-10	Q658	E-8	Q708	E-6	Q758	E-9
D706	E-6	D801	D-13	IC201	C-4	Q361	C-5	Q560	C-9	Q659	E-8	Q709	E-6	Q759	E-9
D710	B-10	D802	B-13	IC301	B-1	Q362	C-6	Q601	E-11	Q691	D-9	Q722	D-10	Q791	D-11
D721	D-10	D804	D-13	IC401	B-7	Q363	D-3	Q602	F-11	Q692	D-8	Q723	D-11	Q801	D-13

3-6. SCHEMATIC DIAGRAM — MAIN (1/3) SECTION —

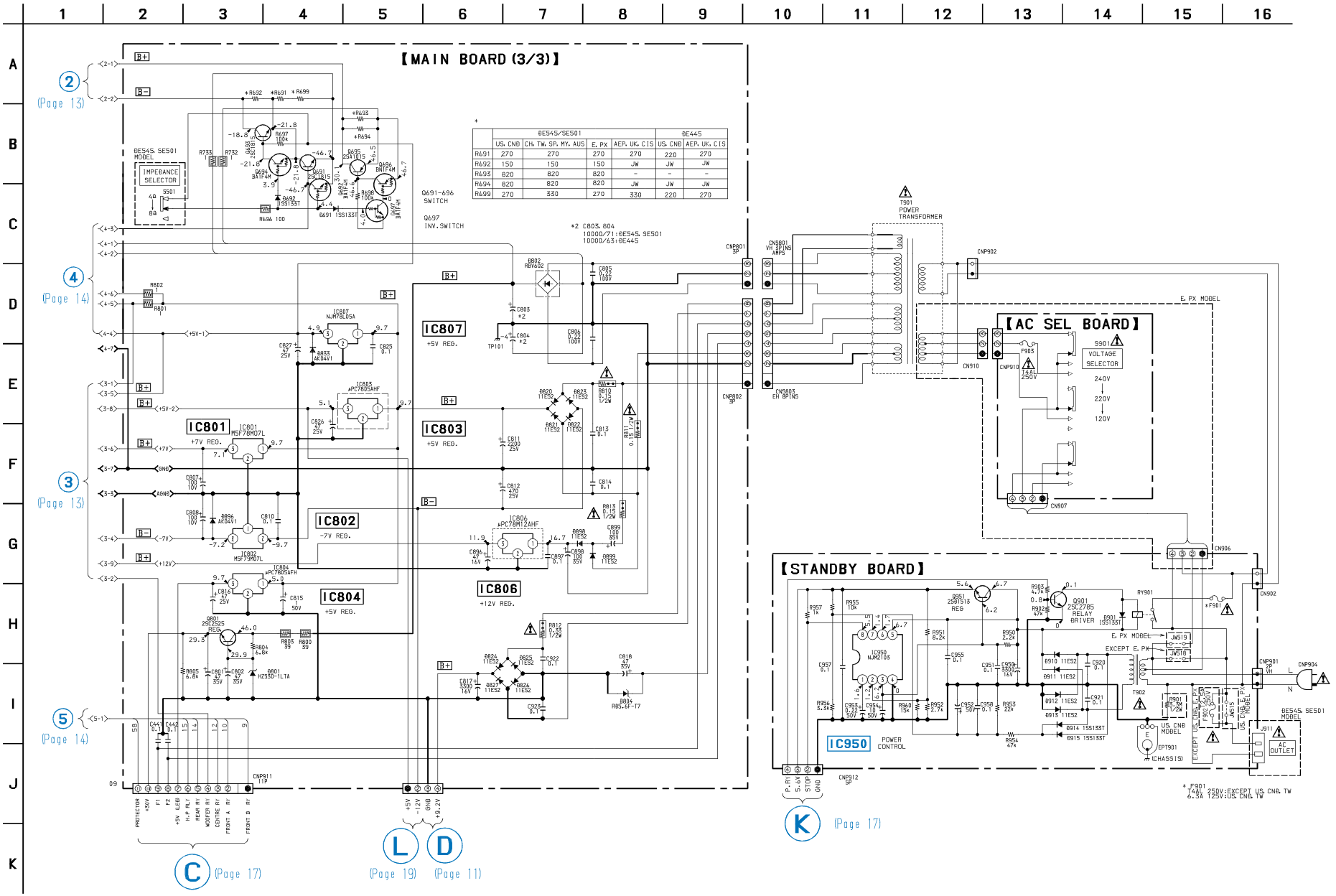
- **See page 7 for Waveforms.**
- **See page 28 for IC Block Diagrams.**



3-7. SCHEMATIC DIAGRAM — MAIN (2/3) SECTION —



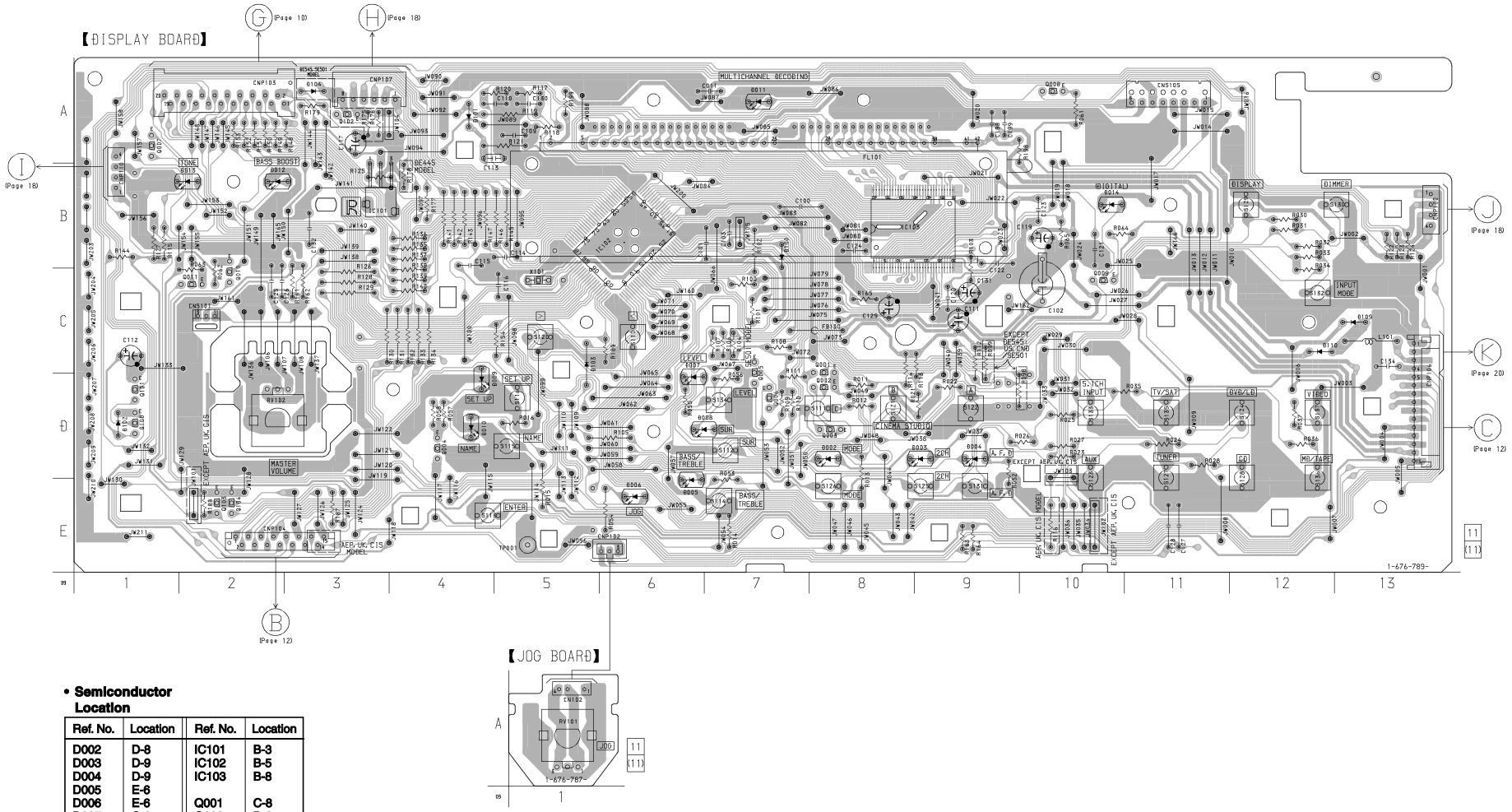
3-8. SCHEMATIC DIAGRAM — MAIN (3/3) SECTION —



	DE545/SE501				DE445	
	US, CND	CH, TW, SP, MY, AUS	E, PX	AEP, UK, C1S	US, CND	AEP, UK, C1S
R691	270	270	270	270	220	270
R692	150	150	150	JW	JW	JW
R693	820	820	820	–	–	–
R694	820	820	820	JW	JW	JW
R699	270	330	270	330	220	270

3-9. PRINTED WIRING BOARD — DISPLAY SECTION —

• See page 7 for Circuit Boards Location.

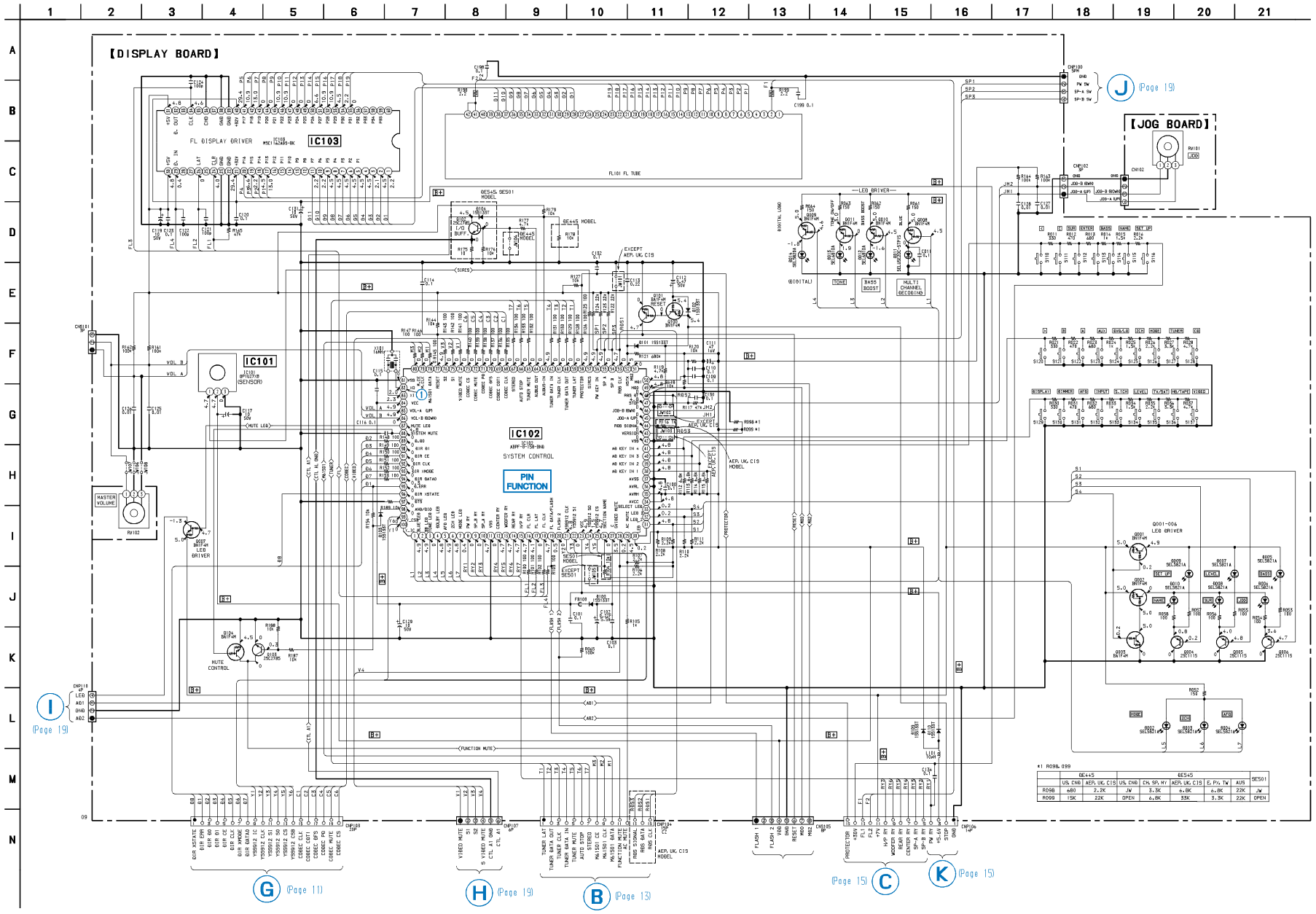


• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D002	D-8	IC101	B-3
D003	D-9	IC102	B-5
D004	D-9	IC103	B-8
D005	E-6		
D006	E-6	Q001	C-8
D007	C-6	Q002	D-8
D008	D-6	Q003	D-8
D009	D-4	Q004	D-4
D010	D-4	Q005	C-7
D011	A-7	Q006	D-7
D012	B-2	Q007	A-1
D013	B-2	Q008	A-10
D014	B-10	Q009	C-10
D100	B-7	Q010	C-2
D101	A-4	Q011	C-2
D102	D-1	Q100	D-1
D103	C-5	Q101	D-1
D104	A-3	Q102	A-3
D109	C-13	Q103	E-2
D110	C-12	Q104	E-2

3-10. SCHEMATIC DIAGRAM — DISPLAY SECTION —

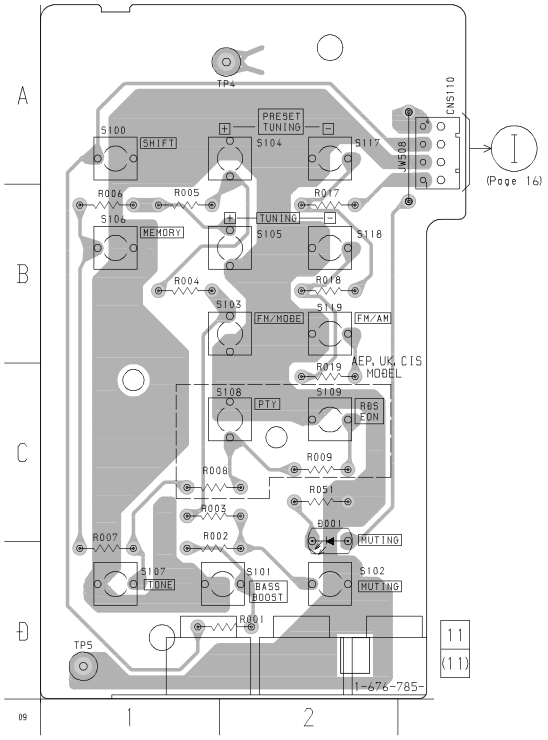
- **See page 7 for Waveforms.**
- **See page 26 for IC Pin Functions.**



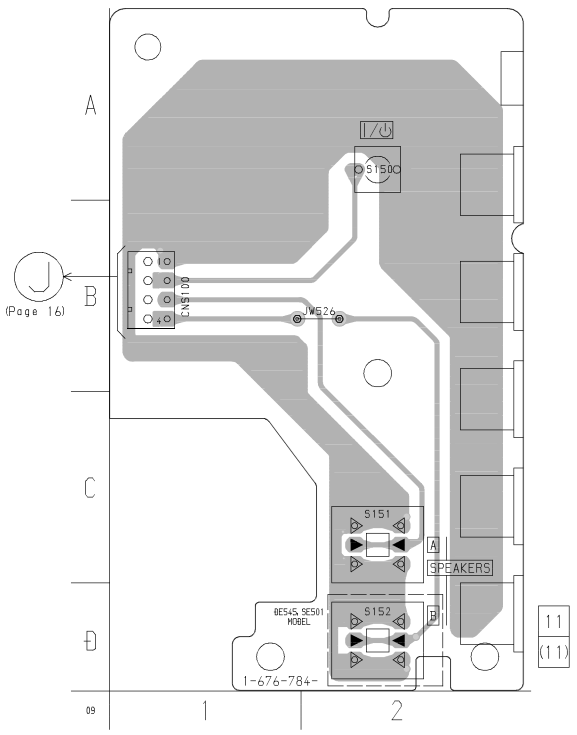
3-11. PRINTED WIRING BOARD — VIDEO/KEY SECTION —

• See page 7 for Circuit Boards Location.

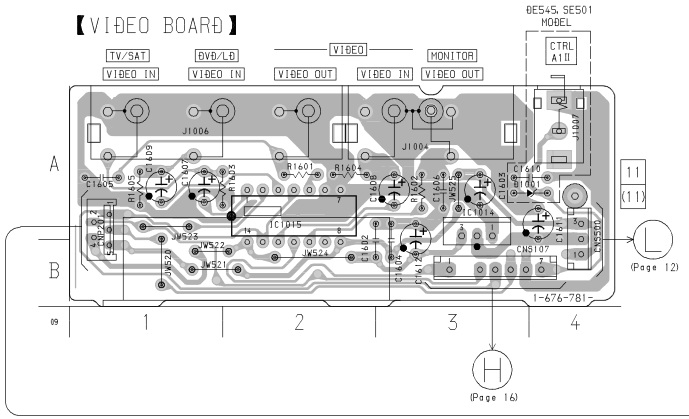
【TUNER SWITCH BOARD】

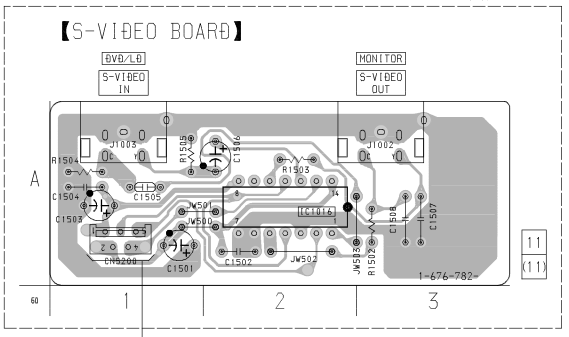


【POWER SWITCH BOARD】



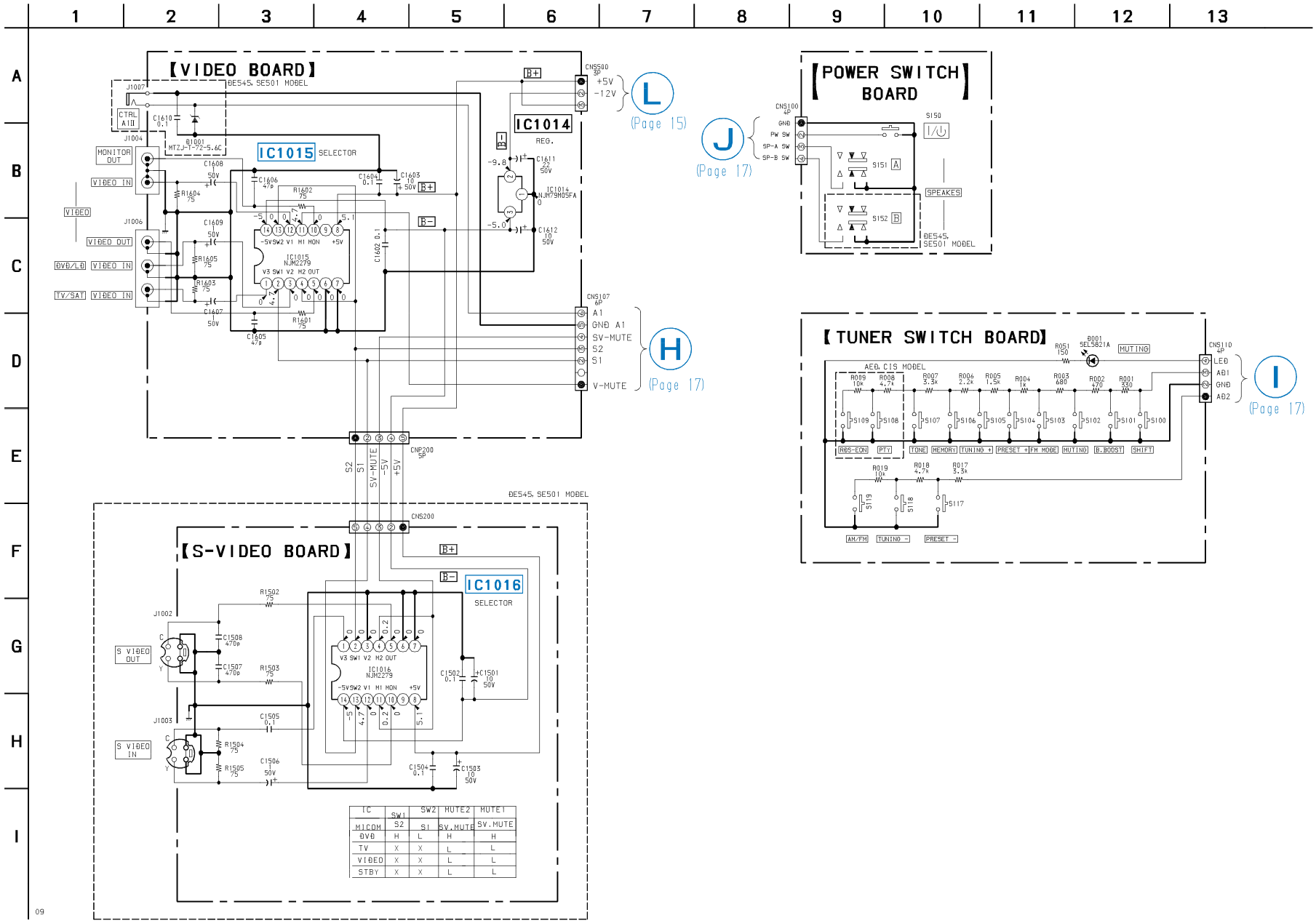
【VIDEO BOARD】





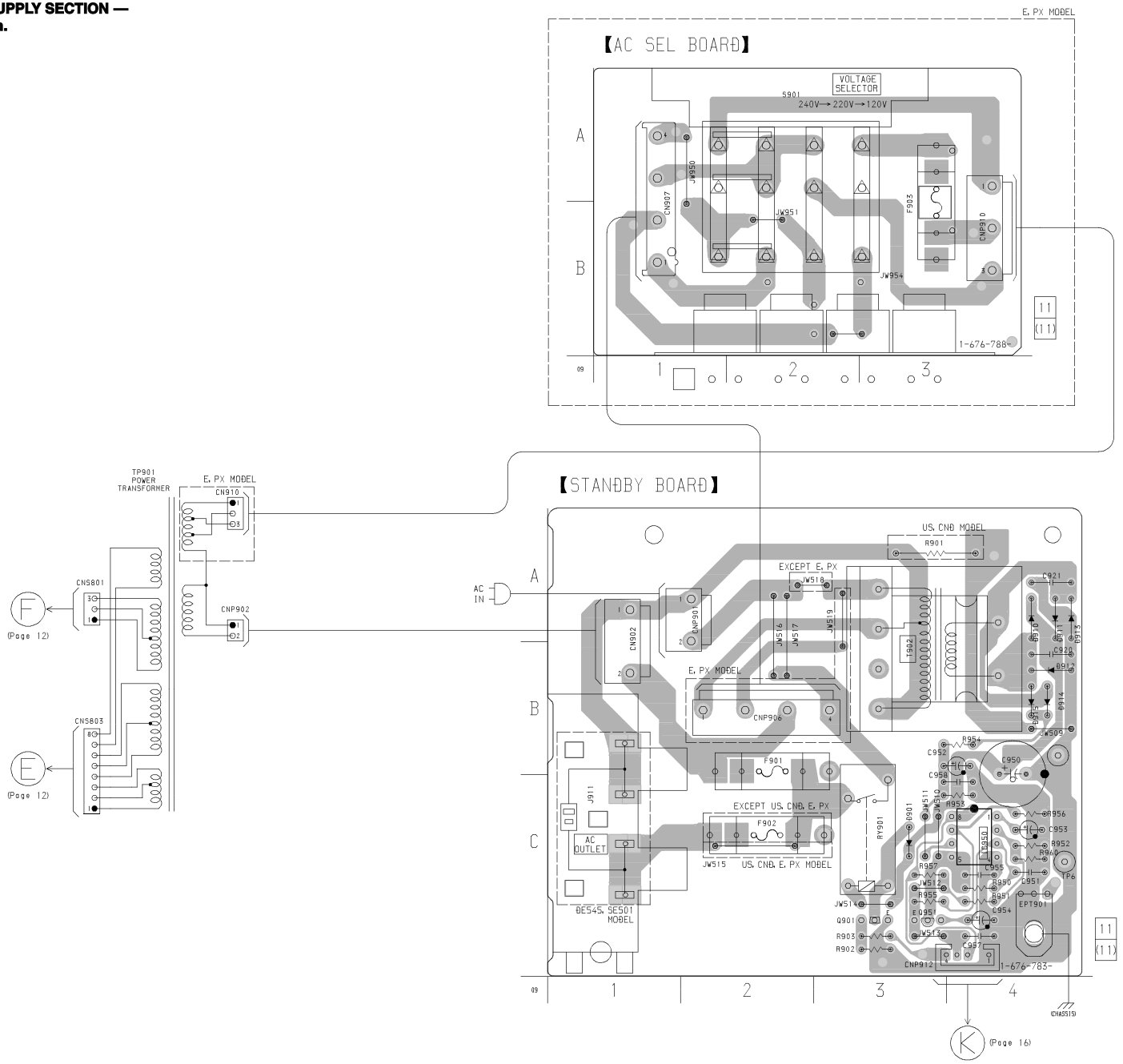
3-12. SCHEMATIC DIAGRAM — VIDEO/KEY SECTION —

• See page 29 for IC Block Diagrams.



3-13. PRINTED WIRING BOARD — POWER SUPPLY SECTION —

• See page 7 for Circuit Boards Location.



• **Semiconductor Location**

Ref. No.	Location
D901	C-3
D910	A-4
D911	A-4
D912	B-4
D913	A-4
D914	B-4
D915	B-4
IC950	C-4
Q901	C-3
Q951	C-3

3-14. IC PIN FUNCTIONS

• IC1004 LC89055W-RA8 DIGITAL AUDIO I/F RECEIVER (DIGITAL BOARD)

Pin No.	Pin Name	I/O	Function
1	DISEL	I	Input data select. (connected to ground.)
2	DOUT	O	EIAJ data and parity flag output terminal (Not used)
3	DIN0	I	Amplifier integrate data input terminal
4	DIN1	O	Amplifier integrate data input terminal
5	DIN2	I	Amplifier integrate data input terminal
6	D. GND	—	Digital ground
7	D. VDD	O	Digital power supply
8	R	I	Input terminal for VCO generator band adjustment
9	V IN	I	Input terminal for VCO self running frequency set
10	LPF	O	External LPF for PLL is connected to this terminal
11	A. VDD	—	Analog power supply
12	A. GND	—	Analog ground
13	CK OUT	—	256fs or 128fs clock output terminal (Select CLKMD terminal)
14	BCK	O	Bit clock output terminal
15	LRCK	O	"L, R clock output terminal (L-ch: "H", R-ch: "L")"
16	DATA O	O	Audio data output terminal
17	XSTATE	O	Xtal status frag output.
18	D. GND	—	Digital ground
19	D. VDD	—	Digital power supply
20	XMCK	—	Not used.
21	XOUT	O	Crystal oscillator output terminal (Not used.)
22	XIN	I	Crystal oscillator input terminal
23	EMPHA	O	Emphasis monitor output terminal ("H" = ON) (Not used.)
24	AUDIO	—	Not used.
25	CSFLAG	O	C-bit change frag output. (Not used.)
26	F0/P0/C0	—	Not used.
27	F1/P1/C1	—	Not used.
28	F2/P2/C2	—	Not used.
29	F3/P3/C3	—	Not used.
30	D. VDD	—	Digital power supply
31	D. GND	—	Digital ground
32	AUTO	O	Non PCM data detect flag output. (Not used.)
33	BPSYNC	O	Non PCM sync detect flag output. (Not used.)
34	ERROR	O	Error mute output terminal
35	DO	O	Microprocessor I/F. When CCB/$\overline{\text{SUB}}$ is "H", data output terminal (high level open drain output)
36	DI	I	Microprocessor I/F. Data input terminal
37	CE	I	Microprocessor I/F. Chip enable/latch input terminal
38	CLK	I	Microprocessor I/F. Clock input terminal
39	XSEL	I	Xtal select. (Connected to +5V.)
40	MODE0	I	Mode 0 input. (Connected to ground.)
41	MODE1	I	Mode 1 input. (Connected to ground.)
42	D. GND	—	Digital ground
43	D. VDD	—	Digital power supply
44	DOSEL0	O	Output data select 0. (Connected to ground.)
45	DOSEL1	O	Output data select 1. (Connected to ground.)
46	CKSEL0	I	System clock select input 0. (Connected to ground.)
47	CKSEL1	I	System clock select input 1. (Connected to ground.)
48	XMODE	I	Reset input.

• **IC1006 CXD9511AQ Audio DISP (DIGITAL BOARD)**

Pin No.	Pin Name	I/O	Function
1	VDD1	—	Power supply. (+5v.)
2	RAMCEN	O	External RAM chip select output.
3, 4	RAM16, 15	O	External RAM address data output. (Not used.)
5 – 7	SDIB0 – 2	I	PCM input to sub DSP. (Not used.)
8	XI	I	Xta'l 12.288MHz input.
9	XO	O	Not used.
10	VSS	—	Ground.
11	AVDD	—	Power supply. (+3.3v)
12	SDIB3	O	PCM input to sub DSP. (Not used.)
13, 14	TEST	—	Test terminal.(Not used.)
15	OVFB	O	Sub DSP over fllow detect. (Not used.)
16	DTS DATA	O	DTS data detect. (Not used.)
17	AC3 DATA	O	AC-3 data detect. (Not used.)
18	SDOB3	O	PCM output from Sub DSP. Not used.
19	CPO	O	Output for PLL.Connected to external analog filter.
20	AVSS	—	Ground.
21	VDD2	—	Power supply. (+3.3v.)
22 – 24	SDOA2 – 0	O	PCM output from Main DSP. (Not used.)
25 – 29	RAMA14 – 10	O	External RAM address data output.
30	VSS	—	Ground.
31	VDD1	—	Power supply. (+5v.)
32 – 39	OPORT0 – 7	O	Not used.
40	VSS	—	Ground.
41	VDD2	—	Power supply. (+3.3v)
42 – 44	RAMA9 – 7	O	External RAM address data output.
45 – 47	SDOB2-0	O	PCM output from Sub DSP.
48	SDBCK1	I	Bit clock input for SDOA, SDIB, SDOB. (Not used.)
49	SDWCK1	I	Word clock input for SDOA, SDIB, SDOB. (Not used.)
50	VSS	—	Ground.
51	VDD2	—	Power supply. (+3.3v.)
52	NONPCM	O	Non-PCM data detect. (Not used.)
53	CRC	O	AC-3 CRC error detect.(Not used.)
54	MUTE	O	Auto mute detect.(Not used.)
55	KARAOKE	O	AC-3 karaoke data detect. (Not used.)
56	SURENC	O	AC-3 2/0 mode dolby surround encode input detect. (Not used.)
57	SDBCKO	O	SDBCK0 inverter clock output. (Not used.)
58, 59	RAMA6, 5	O	External SRAM address data output.
60	VSS	—	Ground.
61	RAMA4	O	External SRAM address data output.
62	IC	I	Initial clear.
63	TEST	—	Test terminal. (Not used.)
64	RAMA3	O	External SRAM address data output.
65	CSB	I	Chip select input for Sub DSP.
66	CSB	I	Microcomputer interface chip select input.
67	SO	O	Microcomputer interface data output.
68	SI	I	Microcomputer interface data input.
69	SCK	I	Microcomputer interface clock input.
70	RAMA2	O	External SRAM address data output.

Pin No.	Pin Name	I/O	Function
71	VDD1	—	Power supply. (+5v.)
72 – 79	RAMD0 – 7	I/O	External SRAM data input/output.
80	VSS	—	Ground.
81	VDD2	—	Power supply. (+3.3v.)
82	SDWCKO	I	Bit clock input for SDOA, SDIB, SDOB.
83	SDBCKO	I	Word clock input for SDOA, SDIB, SDOB.
84	SDIA0	I	AC-3/DTS bitstream or PCM data input to Main DSP.
85	SDIA1	O	AC-3/DTS bitstream or PCM data input to Main DSP.
86	RAMA1	O	External SRAM address data output.
87	RAMA0	O	External SRAM address data output.
88	RAMWEN	O	Write enable for external SRAM.
89	RANOEN	O	Output enable for external SRAM.
90	VSS	—	Ground.
91	VDD2	—	Power supply. (+3.3v.)
92 – 99	IPORT7 – 0	I	Not used.
100	VSS	—	Ground.

• IC1008 AK4527 A/D, D/A CONVERTER (DIGITAL BOARD)

Pin No.	Pin Name	I/O	Function
1	SDOS	I	SDTO source select pin "L": internal ADC output, "H": DAUX input ORed with serial control register if P/$\overline{S}$ = "L" (Connected to ground)
2	I2C	I	Serial control mode select pin
3	S MUTE	I	Soft mute pin "H": Soft mute ON, "L": OFF
4	BCLK	I/O	Audio serial data clock pin
5	LRCK	I/O	Input/output channel clock pin
6	SDT11	I	DAC1 audio serial data input pin
7	SDT12	I	DAC2 audio serial data input pin
8	SDT13	I	DAC3 audio serial data input pin
9	SDTO	O	Audio serial data output pin
10	DAUX	I	AUX audio serial data input pin (Connected to ground)
11	DFS	I	Double speed sampling mode pin "L": normal speed, "H": double speed ORed with serial control register if P/$\overline{S}$ = "L"
12 – 13	DEM1 – DEM0	I	De-emphasis pin ORed with serial control register if P/$\overline{S}$ = "L" (Connected to ground)
14	TVDD	—	Connected to digital power supply.
15	D. 5V	—	Digital power supply pin
16	D. GND	—	Digital ground pin
17	PDN	I	Power-down & reset pin When "L", the AK4527 is powered-down and the control registers are reset to default state. If the state of CAD0-1 changes, then the AK4527 must be reset by PDN.
18	ICKS2	I	Input clock select 2 pin. (Connected to ground)
19	ICKS1	I	Input clock select 1 pin. (Connected to digital power supply)
20	ICKS0	I	Input clock select 0 pin. (Connected to digital power supply)
21	CAD1	I	Chip address pin Used during the serial control mode. (Connected to ground)
22	CAD0	I	Chip address pin Used during the serial control mode. (Connected to ground)
23	LOUT3	O	Lch #3 analog output pin
24	ROUT3	O	Rch #3 analog output pin
25	LOUT2	O	Lch #2 analog output pin
26	ROUT2	O	Rch #2 analog output pin
27	LOUT1	O	Lch #1 analog output pin
28	ROUT1	O	Rch #1 analog output pin
29	LIN–	I	Lch analog negative input pin
30	LIN+	I	Lch analog positive input pin

Pin No.	Pin Name	I/O	Function
31	RIN–	I	Rch analog negative input pin
32	RIN+	I	Rch analog positive input pin
33	DZF2	O	Zero input detect 2. (Not used.)
34	VCOM	O	Common voltage output pin, AVDD/2 Large external capacitor is used to reduce power-supply noise
35	VREFH	I	"Positive voltage reference input pin, AVDD"
36	A. 5V	—	Analog power supply pin
37	A. GND	—	Analog ground pin
38	DZF1	O	Zero input detect 1. (Not used.)
39	MCLK	I	Master clock input pin
40	P/S	I	Parallel/serial select pin "L": serial control mode, "H": parallel control mode (Connected to ground)
41	DIFø/CSN	I	Audio data interface formtat. (At pararel control mode.) Chip select pin in serial mode
42	CCLK	I	Control data clock pin in serial mode
43	CDTI	I	Control data input in serial mode
44	LOOP1	I	Loop back model

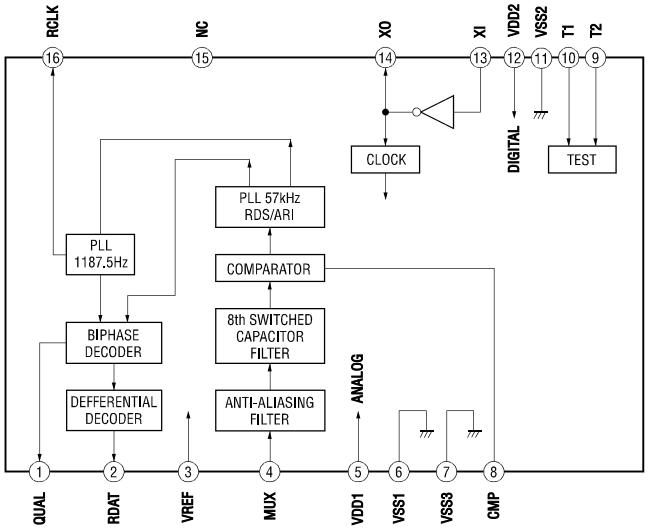
• **IC102 MB90553ABPF-G-158-BND System control (DISPLAY BOARD)**

Pin No.	Pin Name	I/O	Function
1	BLUE LED	O	MULTI CHANNEL DECODING display data output to LED.
2	BB LED	O	BASS BOOST display data output to LED.
3	TONE LED	O	TONE display data output to LED.
4	DOLBY LED	O	DOLBY DIGITAL display data output to LED.
5	AFD LED	O	A.F.D display data output to LED.
6	2CH LED	O	2CH display data output to LED.
7	MODE LED	O	MODE display data output to LED.
8	PW RY	O	Power relay.
9	SP B RY	O	Speaker B relay.
10	SP A RY	O	Speaker A relay.
11	VSS	—	Ground.
12	CENTER RY	O	Center Speaker relay.
13	WOOFER RY	O	Sub Woofer relay.
14	REAR RY	O	Rear Speaker relay.
15	H/P RY	O	Phones relay.
16	FL CLR	O	Clear output to flourescent display tube.
17	FL LAT	O	Latch output to flourescent display tube.
18	FL CLK	O	Clock output to flourescent display tube.
19	FL DATA/FLASH	O	Data output to flourescent display tube./FLASH data output.
20	FLASH2	I	FLASH data input.
21	YSS912 CLK	O	Clock output to Audio DSP IC.
22	YSS912 SI	O	Serial data output to Audio DSP IC.
23	VCC	—	Power suppley.
24	YSS912 SO	I	Serial data input to Audio DSP IC.
25	YSS912 CS	O	Chip select output to Audio DSP IC.
26	SECTION NAME	I	Section name signal input.
27	C	—	External power regulator capacitor 0.1 is connected to this terminal.
28	SVIDEO MUTE	O	S-video mute output.
29	AC MUTE	O	AC mute output.
30 – 32	LED1 – 3	O	LED data output.
33	SELECT LED	O	LED select data output.
34	AVCC	—	Analog power suppley.
35	AVRH	—	Connected to power supply.
36	AVRL	—	Connected to ground.
37	AVSS	—	Ground.
38 – 41	AD KEY IN1 – 4	I	Key input.
42	VSS	—	Power suppley.
43	VERSION	I	Version signal input.
44	RDS SIGNAL	I	RDS signal input.
45	JOG A (UP)	I	Function encoder up input.
46	JOG B (DWN)	I	Function encoder down input.
47	STOP	I	Stop input.
48	RDS DT	I	RDS data input.
49	MD0	I	Selection of micrprocessor operation mode.
50	MD1	I	Selection of micrprocessor operation mode. (Connected to power supply.)
51	MD2	I	Selection of micrprocessor operation mode.
52	HSTX	I	Hardware standby signal input.
53	RDS CLK	I	RDS clock input.
54	SP B	I	Speaker B signal input.

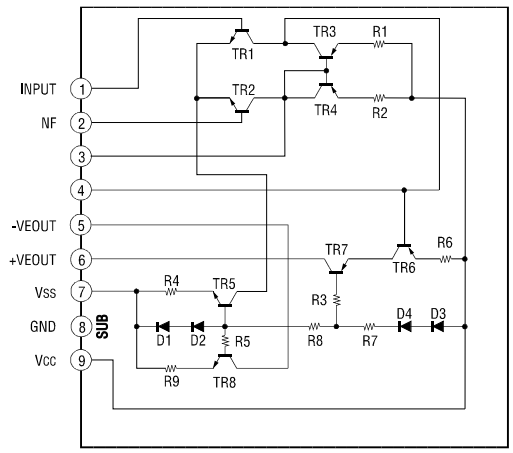
Pin No.	Pin Name	I/O	Function
55	SP A	I	Speaker A signal input.
56	PW KEY IN	I	Power key input.
57	SIRCS	I	Sircs signal input.
58	PROTECTOR	I	Protect signal input.
59	TUNER LAT	O	Tuner latch output.
60	TUNER DATA OUT	O	Tuner data output.
61	TUNER CLK	O	Tuner clock output.
62	TUNER DATA IN	I	Tuner data input.
63	AUBUS IN	I	Audio data bus input.
64	AUBUS OUT	O	Audio data bus output.
65	TUNER MUTE	O	Tuner mute output.
66	AUTO STOP	I	Auto stop signal input.
67	STEREO	I	Stereo signal input.
68	CODEC CLK	O	CODEC clock output.
69	CODEC DFS	O	CODEC double speed sampling output.
70	CODEC CDT1	O	CODEC control data output.
71	CODEC PD	O	CODEC power down output.
72	CODEC MUTE	O	CODEC mute output.
73	CODEC CS	O	CODEC chip select output.
74	VIDEO MUTE	O	Video mute output.
75	S1	O	Video select switch1 output.
76	S2	O	Video select switch2 output.
77	RESET	I	Reset input.
78	M61501 DATA	O	Data output to sound processor.
79	M. CLK	O	Clock output to sound processor.
80	M. CE	O	Chip enable output to sound processor.
81	VSS	—	Ground.
82	XO	O	External ceramic filter 16MHz is connected to this terminal.
83	XI	I	External ceramic filter 16MHz is connected to this terminal.
84	VCC	—	Power suppley.
85	VOL-A (UP)	I	Volume up signal input.
86	VOL-B (DOWN)	I	Volume down signal input.
87	MUTE LED	O	Muting display data output to LED.
88	SYSTEM MUTE	O	System mute output.
89	D.DO	I	Data input to digital audio I/F receiver.
90	DIR DI	O	Data output to digital audio I/F receiver.
91	DIR CE	O	Chip enable output to digital audio I/F receiver.
92	DIR CLK	O	Clock output to digital audio I/F receiver.
93	DIR XMODE	O	Reset signal output to digital audio I/F receiver.
94	DIR DATAO	I	Audio data input to digital audio I/F receiver.
95	D.ERR	I	Error mute signal input to digital audio I/F receiver.
96	DIR XSTATE	I	Xtal status frag signal input to digital audio I/F receiver.
97	DTS	I	Digital theater system signal input.
98	ANG/DIG	O	Analog/digital select signal output.
99	Y CS	O	Chip select output to Audio DSP IC.
100	Y IC	O	Reset signal output to Audio DSP IC.

3-15. IC BLOCK DIAGRAMS

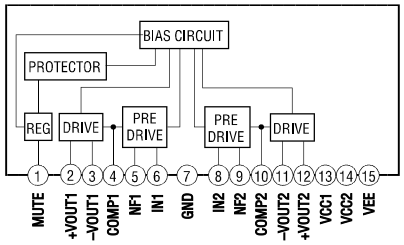
IC301 BU1924F-E2 (MAIN BOARD)



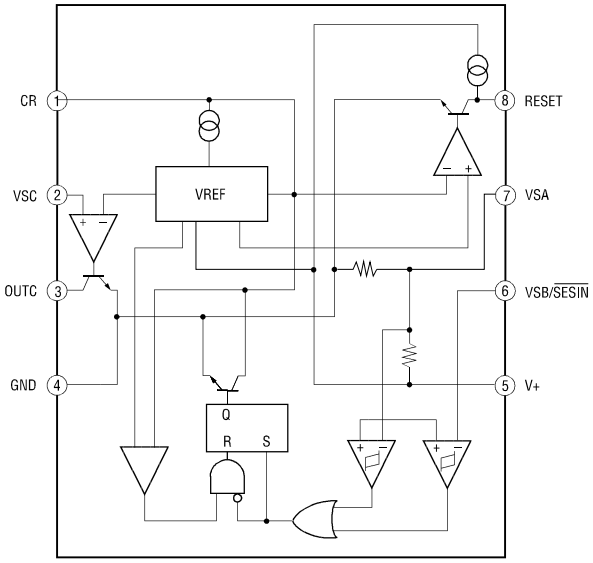
IC501 STK350-230 (MAIN BOARD)



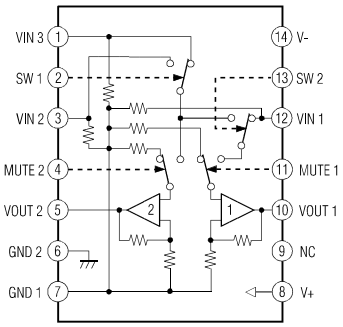
IC701, 702 µPC2581V (MAIN BOARD)



IC950 NJM2103D (STBY BOARD)



IC1015 NJM2279D (VIDEO BOARD)
IC1016 NJM2279D (S VIDEO BOARD)



SECTION 4
EXPLODED VIEWS

NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Color Indication of Appearance Parts Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts of Color Cabinet's Color
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

以阴影和⚠标志来识别的零部件在安全方面具有关键性。因此只能以规定号码的零部件来更换。

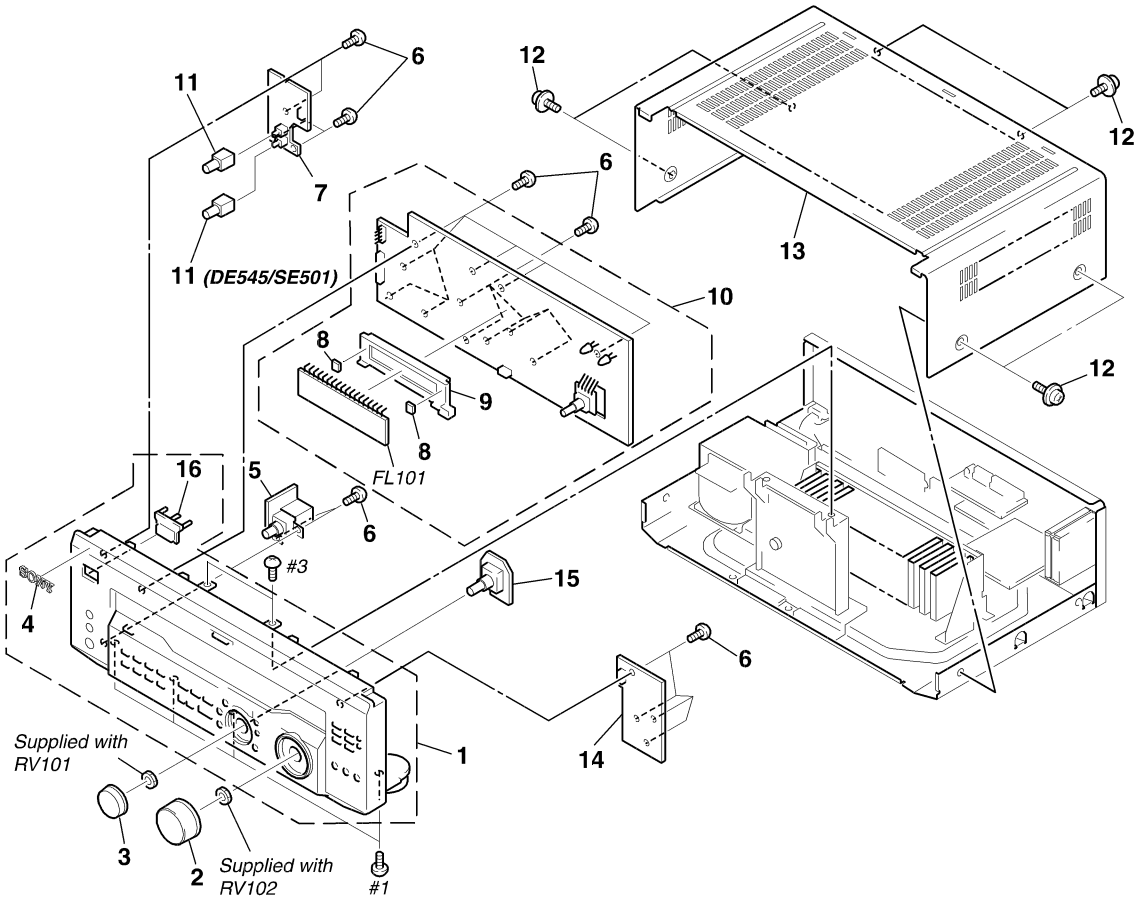
- Abbreviation

CND	: Canadian	MY	: Malaysia
AUS	: Australian	SP	: Singapore
CH	: Chinese	TW	: Taiwan

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

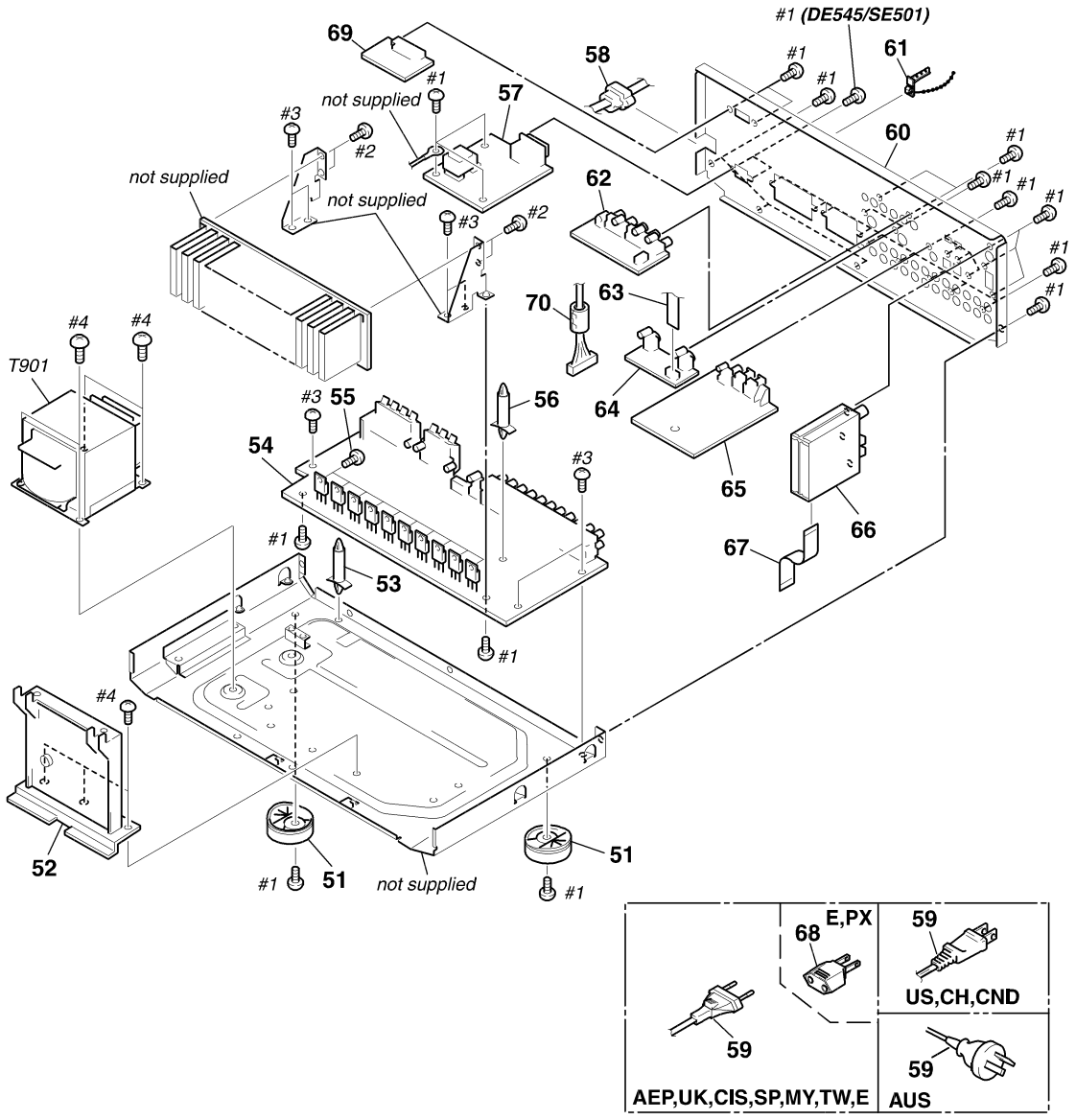
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

4-1. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
1	X-4952-628-1	FRONT PANEL ASSY(DE545:US,CND)	
1	X-4952-629-1	FRONT PANEL ASSY(DE445:US,CND)	
1	X-4952-679-1	FRONT PANEL ASSY(DE545:AUS)	
1	X-4952-680-1	FRONT PANEL ASSY(DE545:AEP,UK,CIS)	
1	X-4952-681-1	FRONT PANEL ASSY(DE545:CH,TW,SP,MY)	
1	X-4952-682-1	FRONT PANEL ASSY(BLACK)(DE445:AEP,UK,CIS)	
1	X-4952-683-1	FRONT PANEL ASSY(SE501)	
1	X-4952-831-1	FRONT PANEL ASSY(SILVER)	(DE445:AEP,UK,CIS)
1	X-4952-938-1	FRONT PANEL ASSY(DE545:E,PX)	
2	4-226-453-11	KNOB(VOL-E3) (BLACK)	(CH,US,CND,AEP,UK,CIS,AUS)
2	4-226-453-21	KNOB(VOL-E3)(DE545:TW,SP,MY)	
2	4-226-453-41	KNOB(VOL-E3)(SILVER)	(DE445:AEP,UK,CIS/DE545:E,PX,AUS)
3	4-226-799-01	KNOB(JOG)(BLACK)(US,CND,AEP,UK,CIS)	
3	4-226-799-11	KNOB(JOG)(SILVER)	(DE445:AEP,UK,CIS/DE545:CH,TW,SP,MY,E,PX,AUS)
4	4-996-698-01	EMBLEM, SONY(EXCEPT CH,TW,SP,MY)	
4	4-996-698-11	EMBLEM, SONY(CH,TW,SP,MY)	
5	1-676-786-11	HEADPHONE BOARD	
6	4-951-620-01	SCREW(2.6X8), +BVTP	
7	1-676-784-11	POWER SWITCH BOARD	
* 8	4-921-941-01	CUSHION (FL)	
* 9	3-386-245-12	HOLDER (FL)	
10	A-4428-428-A	DISPLAY BOARD, COMPLETE(DE445:US)	
10	A-4428-438-A	DISPLAY BOARD, COMPLETE(DE545:US)	
10	A-4428-458-A	DISPLAY BOARD, COMPLETE(SE501)	
10	A-4428-464-A	DISPLAY BOARD, COMPLETE(DE445:CND)	
10	A-4428-466-A	DISPLAY BOARD, COMPLETE	(DE445:AEP,UK,CIS)
10	A-4428-468-A	DISPLAY BOARD, COMPLETE(DE545:CND)	
10	A-4428-471-A	DISPLAY BOARD, COMPLETE	(DE545:AEP,UK,CIS)
10	A-4428-479-A	DISPLAY BOARD, COMPLETE(DE545:TW,E,PX)	
10	A-4428-482-A	DISPLAY BOARD, COMPLETE(DE545:CH,SP,MY)	
10	A-4428-492-A	DISPLAY BOARD, COMPLETE(DE545:AUS)	
11	4-226-445-11	BUTTON (S)(BLACK)(US,CND,AEP,UK,CIS)	
11	4-226-445-21	BUTTON (S)(DE545:CH,TW,SP,MY)	
11	4-226-445-41	BUTTON (S)(SILVER)	(DE445:AEP,UK,CIS/DE545:E,PX,AUS)
12	4-210-291-01	SCREW (CASE 3 TP2)(BLACK)	(US,CND,AEP,UK,CIS)
12	4-210-291-11	SCREW (CASE 3 TP2)(SILVER)	(DE445:AEP,UK,CIS/DE545:CH,TW,SP,MY,E,PX,AUS)
13	4-226-945-01	CASE(E5)(BLACK)(US,CND,AEP,UK,CIS)	
13	4-226-945-21	CASE(E5)(CH,TW,SP,MY)	
13	4-226-945-41	CASE(E5)(SILVER)	(DE445:AEP,UK,CIS/DE545:E,PX,AUS)
14	1-676-785-11	TUNER SWITCH BOARD	
15	1-676-787-11	JOG BOARD	
16	4-996-683-21	BUTTON (POWER)(BLACK)(US,CND,AEP,UK,CIS)	
16	4-996-683-51	BUTTON (POWER)(CH,TW,SP,MY)	
16	4-996-683-71	BUTTON (POWER)(SILVER)	(DE445:AEP,UK,CIS/DE545:E,PX,AUS)
FL101	1-517-929-11	TUBE, FLUORESCENT INDICATOR	

4-2. CHASSIS SECTION



Ref. No.	Part No.	Description	Remark
51	X-4947-124-1	FOOT ASSY (F50150S)(SILVER) (DE445:AEP,UK,CIS/DE545:E,PX,AUS)	
51	X-4947-208-1	FOOT ASSY (F50150S)(BLACK) (DE445:US,CND,AEP,UK/DE545:CH,US,CND,AEP,UK,CIS,SE501)	
51	X-4947-389-1	FOOT ASSY (F50150S)(BLACK)(DE445:CIS)	
51	X-4947-547-1	FOOT ASSY (F50150S)(DE545:TW,SP,MY)	
52	4-226-801-01	SUB MOLD (E5)	
* 53	4-954-051-51	HOLDER, PC BOARD(DE445)	
54	A-4428-423-A	MAIN BOARD, COMPLETE(DE445:US)	
54	A-4428-429-A	MAIN BOARD, COMPLETE(DE545:US,SE501)	
54	A-4428-463-A	MAIN BOARD, COMPLETE(DE445:CND)	
54	A-4428-465-A	MAIN BOARD, COMPLETE(DE445:AEP,UK,CIS)	
54	A-4428-467-A	MAIN BOARD, COMPLETE(DE545:CND,E,PX)	
54	A-4428-469-A	MAIN BOARD, COMPLETE(DE545:AEP,UK,CIS)	
54	A-4428-490-A	MAIN BOARD, COMPLETE (DE545:CH,TW,SP,MY,AUS)	
55	3-905-609-01	SCREW (TRANSISTOR)	
* 56	4-924-098-91	HOLDER, PC BOARD	
57	A-4428-435-A	STBY BOARD, COMPLETE(US,CND)	
57	A-4428-478-A	STBY BOARD, COMPLETE(E,PX)	
57	A-4428-481-A	STBY BOARD, COMPLETE(AEP,UK,CIS,SP,MY)	
57	A-4428-491-A	STBY BOARD, COMPLETE(AUS)	
57	A-4428-497-A	STBY BOARD, COMPLETE(CH)	
57	A-4473-334-A	STBY BOARD, COMPLETE(TW)	
* 58	3-703-244-00	BUSHING (2104), CORD	
⚠59	1-696-847-11	CORD, POWER(AUS)	
⚠59	1-777-070-21	CORD, POWER(CND)	
⚠59	1-777-071-21	CORD, POWER(AEP,UK,CIS,SP,MY,TW,E,PX)	
⚠59	1-783-205-11	CORD, POWER(CH)	
⚠59	1-783-820-11	CORD, POWER(US)	
60	4-226-802-01	BACK PANEL (E5)(DE545:US)	
60	4-226-802-11	BACK PANEL (E5)(DE545:CND)	
60	4-226-802-21	BACK PANEL (E5)(DE545:AUS)	
60	4-226-802-31	BACK PANEL (E5)(DE545:E,PX)	
60	4-226-802-41	BACK PANEL (E5)(DE545:SP,MY)	
60	4-226-802-51	BACK PANEL (E5)(DE545:CH)	
60	4-226-802-61	BACK PANEL (E5)(DE545:AEP,UK,CIS)	
60	4-226-802-71	BACK PANEL (E5)(DE545:TW)	
60	4-226-808-01	BACK PANEL (E4)(DE445:US)	
60	4-226-808-11	BACK PANEL (E4)(DE445:CND)	
60	4-226-808-21	BACK PANEL (E4)(DE445:AEP,UK)	
60	4-226-808-31	BACK PANEL (E4)(DE445:CIS)	
60	4-227-063-01	BACK PANEL (S5)(SE501)	
61	4-956-370-12	BAND, PLUG FIXED(DE545:TW,AUS)	
62	1-676-781-11	VIDEO BOARD	
63	1-769-840-11	WIRE(FLAT TYPE) (5 CORE)(DE545,SE501)	
64	1-676-782-11	S-VIDEO BOARD(DE545,SE501)	
65	A-4424-456-A	DIGITAL BOARD, COMPLETE(DE445)	
65	A-4424-459-A	DIGITAL BOARD, COMPLETE(DE545,SE501)	
66	1-693-407-41	TUNER(TW,US,CND,E)	
66	1-693-408-41	TUNER(CH,AEP,UK,CIS,SP,MY,AUS)	
67	1-773-001-11	WIRE(FLAT TYPE) (15 CORE)	
⚠68	1-569-008-21	ADAPTOR, CONVERSION 2P(E,PX)	
69	1-676-788-11	AC SEL BOARD(E,PX)	
70	1-500-386-11	FILTER, CLAMP (FERRITE CORE)	
⚠T901	1-435-306-11	TRANSFORMER, POWER(DE545:US)	
⚠T901	1-435-306-21	TRANSFORMER, POWER(SE501)	
⚠T901	1-435-307-11	TRANSFORMER, POWER(DE545:CND)	
⚠T901	1-435-308-11	TRANSFORMER, POWER(DE545:AUS)	
⚠T901	1-435-309-11	TRANSFORMER, POWER (DE545:CH,AEP,UK,CIS,SP,MY)	
⚠T901	1-435-310-11	TRANSFORMER, POWER(DE545:E,PX)	
⚠T901	1-435-312-11	TRANSFORMER, POWER(DE445:CND)	
⚠T901	1-435-313-11	TRANSFORMER, POWER(DE445:US)	
⚠T901	1-435-314-11	TRANSFORMER, POWER(DE445:AEP,UK,CIS)	
⚠T901	1-435-562-11	TRANSFORMER, POWER(DE545:TW)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.	以阴影和 ⚠ 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。

AC SEL **DIGITAL**

SECTION 5
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Abbreviation

CND	: Canadian	MY	: Malaysia
AUS	: Australian	SP	: Singapore
CH	: Chinese	TW	: Taiwan

- CAPACITORS:
  uF: µF
- RESISTORS
  All resistors are in ohms.
  METAL: metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- COILS
  uH: µH

When indicating parts by reference number, please include the board name.

- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA...: µA... , uPA... , µPA... ,
  uPB... , µPB... , uPC... , µPC... ,
  uPD..., µPD...

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

以阴影和⚠标志来识别的零部件在安全方面具有关键性。因此只能以规定号码的零部件来更换。

Ref. No.	Part No.	Description			Remark
	1-676-788-11	AC SEL BOARD (E,PX)			
		**********			
	1-533-223-11	HOLDER, FUSE (E,PX)			
		< CONNECTOR >			
* CNP910	1-580-445-11	PIN, CONNECTOR 3P(E,PX)			
		< FUSE >			
⚠F903	1-532-504-31	FUSE T4AL 250V(E,PX)			
		< SWITCH >			
⚠S901	1-571-437-11	SWITCH, POWER VOLTAGE CHANGE (VOLTAGE SELECTOR)(E,PX)			
**********					
	A-4424-456-A	DIGITAL BOARD, COMPLETE (DE445)			
		**********			
	A-4424-459-A	DIGITAL BOARD, COMPLETE (DE545,SE501)			
		**********			
	7-685-646-79	SCREW +BVTP	3X8	TYPE2 IT-3	
		< CAPACITOR >			
C1001	1-165-319-11	CERAMIC CHIP	0.1uF	50V	
C1002	1-165-319-11	CERAMIC CHIP	0.1uF	50V (DE545,SE501)	
C1101	1-165-319-11	CERAMIC CHIP	0.1uF	50V	
C1102	1-163-021-91	CERAMIC CHIP	0.01uF	10.00% 50V	
C1103	1-165-319-11	CERAMIC CHIP	0.1uF	50V	
C1104	1-104-664-11	ELECT	47uF	20.00% 16V	
C1105	1-165-319-11	CERAMIC CHIP	0.1uF	50V	
C1106	1-163-021-91	CERAMIC CHIP	0.01uF	10.00% 50V	
C1107	1-104-664-11	ELECT	47uF	20.00% 16V	
C1108	1-165-319-11	CERAMIC CHIP	0.1uF	50V	
C1109	1-165-319-11	CERAMIC CHIP	0.1uF	50V	
C1110	1-165-319-11	CERAMIC CHIP	0.1uF	50V	
C1111	1-163-021-91	CERAMIC CHIP	0.01uF	10.00% 50V	
C1112	1-163-233-11	CERAMIC CHIP	18PF	5.00% 50V	
C1113	1-163-233-11	CERAMIC CHIP	18PF	5.00% 50V	
C1114	1-165-319-11	CERAMIC CHIP	0.1uF	50V	
C1115	1-104-664-11	ELECT	47uF	20.00% 16V	
C1116	1-163-251-11	CERAMIC CHIP	100PF	5.00% 50V	
C1201	1-126-965-11	ELECT	22uF	20.00% 50V	
C1202	1-106-347-00	MYLAR	0.0015uF	5.00% 50V	

Ref. No.	Part No.	Description			Remark
C1221	1-126-965-11	ELECT	22uF	20.00% 50V	
C1222	1-126-965-11	ELECT	22uF	20.00% 50V	
C1223	1-126-965-11	ELECT	22uF	20.00% 50V	
C1224	1-165-319-11	CERAMIC CHIP	0.1uF	50V	
C1225	1-165-319-11	CERAMIC CHIP	0.1uF	50V	
C1226	1-126-964-11	ELECT	10uF	20.00% 50V	
C1228	1-165-319-11	CERAMIC CHIP	0.1uF	50V	
C1229	1-104-664-11	ELECT	47uF	20.00% 16V	
C1230	1-165-319-11	CERAMIC CHIP	0.1uF	50V	
C1231	1-126-964-11	ELECT	10uF	20.00% 50V	
C1232	1-126-935-11	ELECT	470uF	20.00% 6.3V	
C1233	1-126-960-11	ELECT	1uF	20.00% 50V	
C1251	1-126-965-11	ELECT	22uF	20.00% 50V	
C1252	1-165-319-11	CERAMIC CHIP	0.1uF	50V	
C1253	1-126-964-11	ELECT	10uF	20.00% 50V	
C1254	1-106-347-00	MYLAR	0.0015uF	5.00% 50V	
C1271	1-126-965-11	ELECT	22uF	20.00% 50V	
C1272	1-126-965-11	ELECT	22uF	20.00% 50V	
C1273	1-126-965-11	ELECT	22uF	20.00% 50V	
C1301	1-126-935-11	ELECT	470uF	20.00% 6.3V	
C1302	1-165-319-11	CERAMIC CHIP	0.1uF	50V	
C1303	1-165-319-11	CERAMIC CHIP	0.1uF	50V	
C1304	1-104-664-11	ELECT	47uF	20.00% 16V	
C1305	1-163-133-00	CERAMIC CHIP	470PF	5% 50V	
C1306	1-165-319-11	CERAMIC CHIP	0.1uF	50V	
C1307	1-165-319-11	CERAMIC CHIP	0.1uF	50V	
C1308	1-165-319-11	CERAMIC CHIP	0.1uF	50V	
C1309	1-165-319-11	CERAMIC CHIP	0.1uF	50V	
C1310	1-165-319-11	CERAMIC CHIP	0.1uF	50V	
C1311	1-165-319-11	CERAMIC CHIP	0.1uF	50V	
C1312	1-165-319-11	CERAMIC CHIP	0.1uF	50V	
C1313	1-165-319-11	CERAMIC CHIP	0.1uF	50V	
C1314	1-126-960-11	ELECT	1uF	20.00% 50V	
C1315	1-126-935-11	ELECT	470uF	20.00% 6.3V	
C1316	1-126-935-11	ELECT	470uF	20.00% 6.3V	
C1317	1-126-960-11	ELECT	1uF	20.00% 50V	
C1318	1-104-665-11	ELECT	100uF	20.00% 10V	
C1319	1-104-665-11	ELECT	100uF	20.00% 10V	
C1320	1-126-935-11	ELECT	470uF	20.00% 6.3V	
C1321	1-165-319-11	CERAMIC CHIP	0.1uF	50V	
C1322	1-163-243-11	CERAMIC CHIP	47PF	5.00% 50V	
C1323	1-163-217-11	CERAMIC CHIP	1PF	0.25PF 50V	
C1324	1-126-965-11	ELECT	22uF	20.00% 50V	
C1325	1-163-021-91	CERAMIC CHIP	0.01uF	10.00% 50V	
C1329	1-163-251-11	CERAMIC CHIP	100PF	5.00% 50V	

Ref. No.	Part No.	Description	Remark
C1330	1-163-251-11	CERAMIC CHIP 100PF 5.00%	50V
		< CONNECTOR >	
* CNP501	1-691-774-11	PLUG (MICRO CONNECTOR) 12P	
* CNP502	1-564-506-11	PLUG, CONNECTOR 3P	
		< CONNECTOR >	
CNS103	1-794-006-11	CONNECTOR 20P	
		< DIODE >	
D1101	8-719-016-74	DIODE 1SS352-TPH3	
D1201	8-719-016-74	DIODE 1SS352-TPH3	
D1202	8-719-016-74	DIODE 1SS352-TPH3	
D1301	8-719-016-74	DIODE 1SS352-TPH3	
		< FERRITE BEAD >	
FB1101	1-414-813-11	FERRITE 0UH	
FB1102	1-469-152-11	FERRITE 0UH	
FB1103	1-469-152-11	FERRITE 0UH	
FB1104	1-469-152-11	FERRITE 0UH	
FB1105	1-469-152-11	FERRITE 0UH	
FB1106	1-469-152-11	FERRITE 0UH	
FB1107	1-469-152-11	FERRITE 0UH	
FB1108	1-469-152-11	FERRITE 0UH	
FB1201	1-414-813-11	FERRITE 0UH	
FB1301	1-414-813-11	FERRITE 0UH	
FB1302	1-414-813-11	FERRITE 0UH	
FB1303	1-414-813-11	FERRITE 0UH	
FB1304	1-414-813-11	FERRITE 0UH	
FB1305	1-414-813-11	FERRITE 0UH	
		< IC >	
IC1001	8-749-017-36	IC TORX-179(DVD/LD OPTICAL IN)	
IC1002	8-749-923-05	IC TORX178A(TV/SAT OPTICAL IN)	(DE545,SE501)
IC1003	8-759-242-70	IC TC7WU04F(TE12R)	
IC1004	8-759-639-35	IC LC89055W-RA8	
IC1005	8-759-242-70	IC TC7WU04F(TE12R)	
IC1006	8-759-643-42	IC CXD9511AQ	
IC1007	8-759-342-94	IC IDT71256SA20Y-TL	
IC1008	8-759-657-47	IC AK4527	
IC1009	8-759-039-69	IC uPC7805AHF	
IC1010	8-759-647-10	IC uPC2933HF	
IC1011	8-759-039-69	IC uPC7805AHF	
IC1013	8-759-039-69	IC uPC7805AHF	
IC1201	8-759-099-06	IC M5218AFP-TE1	
IC1251	8-759-099-06	IC M5218AFP-TE1	
		< JACK >	
J1001	1-784-431-11	JACK, PIN 1P(DVD/LD COAXIAL IN)	
		< JUMPER RESISTOR >	
JW1101	1-216-295-91	SHORT 0 (DE445)	
		< RESISTOR >	
R1001	1-216-025-91	RES-CHIP 100 5%	1/10W
R1002	1-216-025-91	RES-CHIP 100 5%	1/10W (DE545,SE501)
R1003	1-216-022-00	METAL CHIP 75 5%	1/10W
R1101	1-216-071-00	METAL CHIP 8.2K 5%	1/10W
R1102	1-216-066-00	METAL CHIP 5.1K 5%	1/10W
R1103	1-216-066-00	METAL CHIP 5.1K 5%	1/10W
R1104	1-216-022-00	METAL CHIP 75 5%	1/10W
R1110	1-216-049-91	RES-CHIP 1K 5%	1/10W
R1111	1-216-049-91	RES-CHIP 1K 5%	1/10W
R1112	1-216-049-91	RES-CHIP 1K 5%	1/10W
R1113	1-216-073-00	METAL CHIP 10K 5%	1/10W
R1114	1-216-073-00	METAL CHIP 10K 5%	1/10W
R1115	1-216-043-91	RES-CHIP 560 5%	1/10W
R1116	1-216-121-91	RES-CHIP 1M 5%	1/10W
R1117	1-216-025-91	RES-CHIP 100 5%	1/10W
R1118	1-216-025-91	RES-CHIP 100 5%	1/10W
R1119	1-216-025-91	RES-CHIP 100 5%	1/10W
R1120	1-216-025-91	RES-CHIP 100 5%	1/10W
R1201	1-216-073-00	METAL CHIP 10K 5%	1/10W
R1202	1-216-059-00	METAL CHIP 2.7K 5%	1/10W
R1203	1-216-037-00	METAL CHIP 330 5%	1/10W
R1204	1-216-073-00	METAL CHIP 10K 5%	1/10W
R1205	1-216-073-00	METAL CHIP 10K 5%	1/10W
R1206	1-216-037-00	METAL CHIP 330 5%	1/10W
R1221	1-216-025-91	RES-CHIP 100 5%	1/10W
R1222	1-216-073-00	METAL CHIP 10K 5%	1/10W
R1223	1-216-097-91	RES-CHIP 100K 5%	1/10W
R1251	1-216-073-00	METAL CHIP 10K 5%	1/10W
R1252	1-216-059-00	METAL CHIP 2.7K 5%	1/10W
R1253	1-216-037-00	METAL CHIP 330 5%	1/10W
R1254	1-216-073-00	METAL CHIP 10K 5%	1/10W
R1255	1-216-073-00	METAL CHIP 10K 5%	1/10W
R1256	1-216-037-00	METAL CHIP 330 5%	1/10W
R1257	1-216-065-91	RES-CHIP 4.7K 5%	1/10W
R1258	1-216-065-91	RES-CHIP 4.7K 5%	1/10W
R1301	1-216-073-00	METAL CHIP 10K 5%	1/10W
R1302	1-216-025-91	RES-CHIP 100 5%	1/10W
R1303	1-216-025-91	RES-CHIP 100 5%	1/10W
R1304	1-216-025-91	RES-CHIP 100 5%	1/10W
R1305	1-216-073-00	METAL CHIP 10K 5%	1/10W
R1306	1-216-081-00	METAL CHIP 22K 5%	1/10W
R1307	1-216-115-00	METAL CHIP 560K 5%	1/10W
R1308	1-216-115-00	METAL CHIP 560K 5%	1/10W
R1309	1-216-025-91	RES-CHIP 100 5%	1/10W
R1310	1-216-049-91	RES-CHIP 1K 5%	1/10W
R1311	1-216-073-00	METAL CHIP 10K 5%	1/10W
R1312	1-216-025-91	RES-CHIP 100 5%	1/10W
R1313	1-216-025-91	RES-CHIP 100 5%	1/10W
R1314	1-216-025-91	RES-CHIP 100 5%	1/10W
R1315	1-216-025-91	RES-CHIP 100 5%	1/10W
R1316	1-216-025-91	RES-CHIP 100 5%	1/10W
R1317	1-216-025-91	RES-CHIP 100 5%	1/10W
		< VIBRATOR >	
X1101	1-781-465-21	VIBRATOR, CRYSTAL (12.288MHz)	

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DISPLAY

Ref. No.	Part No.	Description	Remark
	A-4428-428-A	DISPLAY BOARD, COMPLETE (DE445:US)	
		**********	
	A-4428-438-A	DISPLAY BOARD, COMPLETE (DE545:US)	
		**********	
	A-4428-458-A	DISPLAY BOARD, COMPLETE (SE501)	
		**********	
	A-4428-464-A	DISPLAY BOARD, COMPLETE (DE445:CND)	
		**********	
	A-4428-466-A	DISPLAY BOARD, COMPLETE	
		**********	
			(DE445:AEP,UK,CIS)
	A-4428-468-A	DISPLAY BOARD, COMPLETE (DE545:CND)	
		**********	
	A-4428-471-A	DISPLAY BOARD, COMPLETE	
		**********	
			(DE545:AEP,UK,CIS)
	A-4428-479-A	DISPLAY BOARD, COMPLETE (DE545:TW,E,PX)	
		**********	
	A-4428-482-A	DISPLAY BOARD, COMPLETE (DE545:CH,SP,MY)	
		**********	
	A-4428-492-A	DISPLAY BOARD, COMPLETE (DE545:AUS)	
		**********	
*	3-386-245-12	HOLDER (FL)	
*	4-921-941-01	CUSHION (FL)	
		< CAPACITOR >	

C011	1-164-159-11	CERAMIC	0.1uF		50V
C100	1-164-159-11	CERAMIC	0.1uF		50V
C101	1-164-159-11	CERAMIC	0.1uF		50V
C102	1-104-905-11	CAPACITOR	0.22F		5.5V
C103	1-164-159-11	CERAMIC	0.1uF		50V
C109	1-164-159-11	CERAMIC	0.1uF		50V
C110	1-164-159-11	CERAMIC	0.1uF		50V
C111	1-124-589-11	ELECT	47uF	20%	16V
C112	1-124-465-00	ELECT	0.47uF	20%	50V
C113	1-136-169-00	MYLAR	0.22uF	5.00%	50V
C114	1-164-159-11	CERAMIC	0.1uF		50V
C115	1-164-159-11	CERAMIC	0.1uF		50V
C116	1-164-159-11	CERAMIC	0.1uF		50V
C117	1-124-261-00	ELECT	10uF	20%	50V
C119	1-124-261-00	ELECT	10uF	20%	50V
C120	1-164-159-11	CERAMIC	0.1uF		50V
C121	1-128-809-11	CERAMIC	100PF	5%	50V
C122	1-128-809-11	CERAMIC	100PF	5%	50V
C123	1-164-159-11	CERAMIC	0.1uF		50V
C124	1-128-809-11	CERAMIC	100PF	5%	50V
C125	1-162-306-11	CERAMIC	0.01uF	30.00%	16V
C126	1-162-306-11	CERAMIC	0.01uF	30.00%	16V
C127	1-162-306-11	CERAMIC	0.01uF	30.00%	16V
C128	1-162-306-11	CERAMIC	0.01uF	30.00%	16V
C129	1-124-261-00	ELECT	10uF	20%	50V
C130	1-164-159-11	CERAMIC	0.1uF		50V
C131	1-124-261-00	ELECT	10uF	20%	50V
C132	1-164-159-11	CERAMIC	0.1uF		50V
C134	1-164-159-11	CERAMIC	0.1uF		50V
C198	1-164-159-11	CERAMIC	0.1uF		50V
C199	1-164-159-11	CERAMIC	0.1uF		50V

< CONNECTOR >

CNP100	1-794-028-11	BOARD TO BOARD PIN 4P	
* CNP102	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P	
CNP103	1-794-001-11	CONNECTOR 20P	
CNP104	1-794-002-11	CONNECTOR 13P(EXCEPT AEP,UK,CIS)	
CNP104	1-794-003-11	CONNECTOR 15P(AEP,UK,CIS)	
* CNP106	1-564-594-11	PLUG, CONNECTOR 15P	
* CNP107	1-564-521-11	PLUG, CONNECTOR 6P	
CNP110	1-794-028-11	BOARD TO BOARD PIN 4P	

< CONNECTOR >

* CNS101	1-568-449-11	HOUSING, CONNECTOR(PC BOARD)3P	
* CNS105	1-695-808-11	CONNECTOR, PC BOARD 8P	

< DIODE >

D002	8-719-046-39	DIODE	SEL5821A-TP15(MODE)
D003	8-719-046-39	DIODE	SEL5821A-TP15(2 CH)
D004	8-719-046-39	DIODE	SEL5821A-TP15(A.F.D)
D005	8-719-046-39	DIODE	SEL5821A-TP15(BASS/TREBLE)
D006	8-719-046-39	DIODE	SEL5821A-TP15(JOG)
D007	8-719-046-39	DIODE	SEL5821A-TP15(LEVEL)
D008	8-719-046-39	DIODE	SEL5821A-TP15(SUR)
D009	8-719-046-39	DIODE	SEL5821A-TP15(SET UP)
D010	8-719-046-39	DIODE	SEL5821A-TP15(NAME)
D011	8-719-072-82	DIODE	SELU5E20C-STP15(MULTICHANNEL DECODING)
D012	8-719-313-50	DIODE	SEL6810A-TH12(BASS BOOST)
D013	8-719-313-50	DIODE	SEL6810A-TH12(TONE)
D014	8-719-046-37	DIODE	SEL5820A-TH8F(DIGITAL)
D100	8-719-911-19	DIODE	1SS133T-72
D101	8-719-911-19	DIODE	1SS133T-72
D102	8-719-911-19	DIODE	1SS133T-72
D103	8-719-911-19	DIODE	1SS133T-72
D104	8-719-911-19	DIODE	1SS133T-72(DE545,SE501)
D109	8-719-911-19	DIODE	1SS133T-72
D110	8-719-911-19	DIODE	1SS133T-72

< FERRITE BEAD >

FB100	1-412-473-31	FERRITE	0UH

< FILTER >

FL101	1-517-929-11	TUBE, FLUORESCENT INDICATOR	

< TERMINAL >

* G791	1-537-738-21	TERMINAL, EARTH	

< IC >

IC101	8-759-332-18	IC	GP1U27XB(REMOTE SENSOR)
IC102	8-759-656-88	IC	MB90553ABPF-G-158-BND
IC103	8-759-463-11	IC	MSC1162AGS-BK

Ref. No.	Part No.	Description			Remark
		< COIL >			
L101	1-408-117-00	INDUCTOR 10uH			
		< TRANSISTOR >			
Q001	8-729-900-63	TRANSISTOR BN1F4M-TP			
Q002	8-729-900-63	TRANSISTOR BN1F4M-TP			
Q003	8-729-900-36	TRANSISTOR BA1F4M-TP			
Q004	8-729-311-51	TRANSISTOR 2SC1115			
Q005	8-729-311-51	TRANSISTOR 2SC1115			
Q006	8-729-311-51	TRANSISTOR 2SC1115			
Q007	8-729-900-63	TRANSISTOR BN1F4M-TP			
Q008	8-729-900-63	TRANSISTOR BN1F4M-TP			
Q009	8-729-900-63	TRANSISTOR BN1F4M-TP			
Q010	8-729-900-63	TRANSISTOR BN1F4M-TP			
Q011	8-729-900-63	TRANSISTOR BN1F4M-TP			
Q100	8-729-900-63	TRANSISTOR BN1F4M-TP			
Q101	8-729-900-36	TRANSISTOR BA1F4M-TP			
Q102	8-729-119-78	TRANSISTOR 2SC2785TP-HFE (DE545,SE501)			
Q103	8-729-119-78	TRANSISTOR 2SC2785TP-HFE			
Q104	8-729-900-36	TRANSISTOR BA1F4M-TP			
		< RESISTOR >			
R011	1-249-411-11	CARBON	330	5%	1/4W
R012	1-249-413-11	CARBON	470	5%	1/4W F
R013	1-249-415-11	CARBON	680	5%	1/4W F
R014	1-249-417-11	CARBON	1K	5%	1/4W F
R015	1-249-419-11	CARBON	1.5K	5%	1/4W F
R016	1-249-421-11	CARBON	2.2K	5%	1/4W F
R021	1-249-411-11	CARBON	330	5%	1/4W
R022	1-249-413-11	CARBON	470	5%	1/4W F
R023	1-249-415-11	CARBON	680	5%	1/4W F
R024	1-249-417-11	CARBON	1K	5%	1/4W F
R025	1-249-419-11	CARBON	1.5K	5%	1/4W F
R026	1-249-421-11	CARBON	2.2K	5%	1/4W F
R027	1-247-843-11	CARBON	3.3K	5%	1/4W
R028	1-249-425-11	CARBON	4.7K	5%	1/4W F
R030	1-249-411-11	CARBON	330	5%	1/4W
R031	1-249-413-11	CARBON	470	5%	1/4W F
R032	1-249-415-11	CARBON	680	5%	1/4W F
R033	1-249-417-11	CARBON	1K	5%	1/4W F
R034	1-249-419-11	CARBON	1.5K	5%	1/4W F
R035	1-249-421-11	CARBON	2.2K	5%	1/4W F
R036	1-247-843-11	CARBON	3.3K	5%	1/4W
R037	1-249-425-11	CARBON	4.7K	5%	1/4W F
R052	1-249-407-11	CARBON	150	5%	1/4W F
R053	1-249-407-11	CARBON	150	5%	1/4W F
R054	1-247-807-31	CARBON	100	5%	1/4W
R055	1-247-807-31	CARBON	100	5%	1/4W
R056	1-247-807-31	CARBON	100	5%	1/4W
R057	1-247-807-31	CARBON	100	5%	1/4W
R058	1-247-807-31	CARBON	100	5%	1/4W
R061	1-249-407-11	CARBON	150	5%	1/4W F
R062	1-249-407-11	CARBON	150	5%	1/4W F
R063	1-249-407-11	CARBON	150	5%	1/4W F
R064	1-249-407-11	CARBON	150	5%	1/4W F
R065	1-249-441-11	CARBON	100K	5%	1/4W

Ref. No.	Part No.	Description			Remark
R098	1-249-415-11	CARBON	680	5%	1/4W F (DE445:US,CND)
R098	1-247-843-11	CARBON	3.3K	5%	1/4W (DE545:CH,SP,MY)
R098	1-249-427-11	CARBON	6.8K	5%	1/4W F (DE545:TW,AEP,UK,CIS,E,PX)
R098	1-249-433-11	CARBON	22K	5%	1/4W (DE545:AUS)
R098	1-249-421-11	CARBON	2.2K	5%	1/4W F (DE445:AEP,UK,CIS)
R099	1-249-431-11	CARBON	15K	5%	1/4W (DE445:US,CND)
R099	1-249-427-11	CARBON	6.8K	5%	1/4W F (DE545:CH,SP,MY)
R099	1-247-843-11	CARBON	3.3K	5%	1/4W (DE545:TW,E,PX)
R099	1-249-435-11	CARBON	33K	5%	1/4W (DE545:AEP,UK,CIS)
R099	1-249-433-11	CARBON	22K	5%	1/4W (DE445:AEP,UK,CIS/DE545:AUS)
R100	1-247-807-31	CARBON	100	5%	1/4W
R101	1-247-807-31	CARBON	100	5%	1/4W
R102	1-247-807-31	CARBON	100	5%	1/4W
R103	1-247-807-31	CARBON	100	5%	1/4W
R104	1-249-429-11	CARBON	10K	5%	1/4W (SE501)
R105	1-249-417-11	CARBON	1K	5%	1/4W F
R106	1-249-421-11	CARBON	2.2K	5%	1/4W F
R107	1-249-421-11	CARBON	2.2K	5%	1/4W F
R108	1-249-421-11	CARBON	2.2K	5%	1/4W F
R109	1-249-421-11	CARBON	2.2K	5%	1/4W F
R110	1-249-421-11	CARBON	2.2K	5%	1/4W F
R111	1-249-421-11	CARBON	2.2K	5%	1/4W F
R112	1-249-427-11	CARBON	6.8K	5%	1/4W F
R113	1-249-427-11	CARBON	6.8K	5%	1/4W F
R114	1-249-427-11	CARBON	6.8K	5%	1/4W F
R115	1-249-427-11	CARBON	6.8K	5%	1/4W F
R116	1-249-417-11	CARBON	1K	5%	1/4W F (AEP,UK,CIS)
R117	1-249-437-11	CARBON	47K	5%	1/4W
R118	1-249-429-11	CARBON	10K	5%	1/4W
R119	1-249-425-11	CARBON	4.7K	5%	1/4W F
R120	1-249-429-11	CARBON	10K	5%	1/4W
R121	1-247-899-11	CARBON	680K	5%	1/4W
R122	1-249-433-11	CARBON	22K	5%	1/4W
R123	1-249-433-11	CARBON	22K	5%	1/4W
R124	1-249-433-11	CARBON	22K	5%	1/4W
R125	1-247-807-31	CARBON	100	5%	1/4W
R126	1-247-807-31	CARBON	100	5%	1/4W
R127	1-249-429-11	CARBON	10K	5%	1/4W
R128	1-247-807-31	CARBON	100	5%	1/4W
R129	1-247-807-31	CARBON	100	5%	1/4W
R130	1-247-807-31	CARBON	100	5%	1/4W
R131	1-247-807-31	CARBON	100	5%	1/4W
R132	1-247-807-31	CARBON	100	5%	1/4W
R133	1-247-807-31	CARBON	100	5%	1/4W
R134	1-247-807-31	CARBON	100	5%	1/4W
R135	1-247-807-31	CARBON	100	5%	1/4W
R136	1-247-807-31	CARBON	100	5%	1/4W
R137	1-247-807-31	CARBON	100	5%	1/4W

DISPLAY **HEADPHONE** **JOG** **MAIN**

Ref. No.	Part No.	Description			Remark
R138	1-247-807-31	CARBON	100	5%	1/4W
R139	1-247-807-31	CARBON	100	5%	1/4W
R140	1-247-807-31	CARBON	100	5%	1/4W
R141	1-247-807-31	CARBON	100	5%	1/4W
R142	1-247-807-31	CARBON	100	5%	1/4W
R143	1-247-807-31	CARBON	100	5%	1/4W
R144	1-249-429-11	CARBON	10K	5%	1/4W
R145	1-247-807-31	CARBON	100	5%	1/4W
R146	1-247-807-31	CARBON	100	5%	1/4W
R147	1-247-807-31	CARBON	100	5%	1/4W
R148	1-247-807-31	CARBON	100	5%	1/4W
R149	1-247-807-31	CARBON	100	5%	1/4W
R150	1-247-807-31	CARBON	100	5%	1/4W
R151	1-247-807-31	CARBON	100	5%	1/4W
R152	1-247-807-31	CARBON	100	5%	1/4W
R153	1-247-807-31	CARBON	100	5%	1/4W
R154	1-249-429-11	CARBON	10K	5%	1/4W
R161	1-249-441-11	CARBON	100K	5%	1/4W
R162	1-249-441-11	CARBON	100K	5%	1/4W
R163	1-249-441-11	CARBON	100K	5%	1/4W
R164	1-249-441-11	CARBON	100K	5%	1/4W
R165	1-249-437-11	CARBON	47K	5%	1/4W
R175	1-249-393-11	CARBON	10	5%	1/4W F (DE545,SE501)
R176	1-249-429-11	CARBON	10K	5%	1/4W (DE545,SE501)
R177	1-249-425-11	CARBON	4.7K	5%	1/4W F
R178	1-249-429-11	CARBON	10K	5%	1/4W (DE445)
R179	1-249-429-11	CARBON	10K	5%	1/4W
R187	1-249-429-11	CARBON	10K	5%	1/4W
R188	1-249-429-11	CARBON	10K	5%	1/4W
R189	1-249-429-11	CARBON	10K	5%	1/4W
R198	1-249-385-11	CARBON	2.2	5%	1/6W F
R199	1-249-385-11	CARBON	2.2	5%	1/6W F
		< VARIABLE RESISTOR >			
RV102	1-418-773-11	ENCODER, ROTARY(MASTER VOLUME)			
		< SWITCH >			
S110	1-771-410-21	SWITCH, TACTILE(<)			
S111	1-771-410-21	SWITCH, TACTILE(CHINEMA STUDIO C)			
S112	1-771-410-21	SWITCH, TACTILE(SUR)			
S113	1-771-410-21	SWITCH, TACTILE(ENTER)			
S114	1-771-410-21	SWITCH, TACTILE(BASS/TREBLE)			
S115	1-771-410-21	SWITCH, TACTILE(NAME)			
S116	1-771-410-21	SWITCH, TACTILE(SET UP)			
S120	1-771-410-21	SWITCH, TACTILE(>)			
S121	1-771-410-21	SWITCH, TACTILE(CHINEMA STUDIO B)			
S122	1-771-410-21	SWITCH, TACTILE(CHINEMA STUDIO A)			
S123	1-771-410-21	SWITCH, TACTILE(AUX)			
S124	1-771-410-21	SWITCH, TACTILE(DVD/LD)			
S125	1-771-410-21	SWITCH, TACTILE(2 CH)			
S126	1-771-410-21	SWITCH, TACTILE(MODE)			
S127	1-771-410-21	SWITCH, TACTILE(TUNER)			
S128	1-771-410-21	SWITCH, TACTILE(CD)			
S129	1-771-410-21	SWITCH, TACTILE(DISPLAY)			
S130	1-771-410-21	SWITCH, TACTILE(DIMMER)			
S131	1-771-410-21	SWITCH, TACTILE(A.F.D)			
S132	1-771-410-21	SWITCH, TACTILE(INPUT MODE)			
S133	1-771-410-21	SWITCH, TACTILE(5.1CH INPUT)			
S134	1-771-410-21	SWITCH, TACTILE(LEVEL)			
S135	1-771-410-21	SWITCH, TACTILE(TV/SAT)			
S136	1-771-410-21	SWITCH, TACTILE(MD/TAPE)			
S137	1-771-410-21	SWITCH, TACTILE(VIDEO)			
		< VIBRATOR >			
X101	1-781-356-21	VIBRATOR, CERAMIC (16MHz)			
**********					
	1-676-786-11	HEADPHONE BOARD			
		**********			
		< CONNECTOR >			
CNP792	1-691-765-11	PLUG (MICRO CONNECTOR) 3P			
		< JACK >			
J791	1-750-733-11	JACK (LARGE TYPE)(PHONES) (EXCEPT CH,TW,SP,MY)			
J791	1-750-735-11	JACK (LARGE TYPE)(PHONES)(CH,TW,SP,MY)			
**********					
	1-676-787-11	JOG BOARD			
		**********			
		< VARIABLE RESISTOR >			
RV101	1-418-817-11	ENCODER (ROTARY)(JOG)			
**********					
	A-4428-423-A	MAIN BOARD, COMPLETE (DE445:US)			
		**********			
	A-4428-429-A	MAIN BOARD, COMPLETE (DE545:US,SE501)			
		**********			
	A-4428-463-A	MAIN BOARD, COMPLETE (DE445:CND)			
		**********			
	A-4428-465-A	MAIN BOARD, COMPLETE (DE445:AEP,UK,CIS)			
		**********			
	A-4428-467-A	MAIN BOARD, COMPLETE (DE545:CND,E,PX)			
		**********			
	A-4428-469-A	MAIN BOARD, COMPLETE (DE545:AEP,UK,CIS)			
		**********			
	A-4428-490-A	MAIN BOARD, COMPLETE			
		********** (DE545:CH,TW,SP,MY,AUS)			
	7-685-646-79	SCREW +BVTP	3X8		TYPE2 IT-3
		< CAPACITOR >			
C303	1-128-815-11	CERAMIC	330PF	5%	50V (AEP,UK,CIS)
C304	1-126-961-11	ELECT	2.2uF	20.00%	50V (AEP,UK,CIS)
C305	1-164-159-11	CERAMIC	0.1uF		50V (AEP,UK,CIS)

Ref. No.	Part No.	Description			Remark
C306	1-128-818-11	CERAMIC	560PF	5%	50V (AEP,UK,CIS)
C307	1-102-527-11	CERAMIC	82PF	5.00%	50V (AEP,UK,CIS)
C308	1-102-852-91	CERAMIC	47PF	5.00%	50V (AEP,UK,CIS)
C309	1-124-261-00	ELECT	10uF	20%	50V (AEP,UK,CIS)
C310	1-164-159-11	CERAMIC	0.1uF		50V (AEP,UK,CIS)
C320	1-164-159-11	CERAMIC	0.1uF		50V
C321	1-164-159-11	CERAMIC	0.1uF		50V
C322	1-164-159-11	CERAMIC	0.1uF		50V
C323	1-128-813-11	CERAMIC	220PF	5%	50V
C324	1-128-813-11	CERAMIC	220PF	5%	50V
C371	1-164-159-11	CERAMIC	0.1uF		50V
C372	1-164-159-11	CERAMIC	0.1uF		50V
C373	1-164-159-11	CERAMIC	0.1uF		50V
C374	1-164-159-11	CERAMIC	0.1uF		50V
C375	1-164-159-11	CERAMIC	0.1uF		50V
C376	1-164-159-11	CERAMIC	0.1uF		50V
C401	1-124-261-00	ELECT	10uF	20%	50V
C402	1-124-261-00	ELECT	10uF	20%	50V
C404	1-124-261-00	ELECT	10uF	20%	50V
C405	1-124-261-00	ELECT	10uF	20%	50V
C406	1-124-261-00	ELECT	10uF	20%	50V
C408	1-124-261-00	ELECT	10uF	20%	50V
C409	1-124-261-00	ELECT	10uF	20%	50V
C410	1-124-261-00	ELECT	10uF	20%	50V
C411	1-164-159-11	CERAMIC	0.1uF		50V
C412	1-130-481-00	MYLAR	0.0068uF	5%	50V
C413	1-136-495-11	MYLAR	0.068uF	5.00%	50V
C414	1-130-481-00	MYLAR	0.0068uF	5%	50V
C416	1-136-165-00	MYLAR	0.1uF	5.00%	50V
C417	1-136-165-00	MYLAR	0.1uF	5.00%	50V
C418	1-124-261-00	ELECT	10uF	20%	50V
C419	1-126-963-11	ELECT	4.7uF	20.00%	50V
C420	1-124-261-00	ELECT	10uF	20%	50V
C421	1-124-261-00	ELECT	10uF	20%	50V
C425	1-124-261-00	ELECT	10uF	20%	50V
C428	1-126-963-11	ELECT	4.7uF	20.00%	50V
C429	1-164-159-11	CERAMIC	0.1uF		50V
C430	1-164-159-11	CERAMIC	0.1uF		50V
C431	1-128-809-11	CERAMIC	100PF	5%	50V
C432	1-128-809-11	CERAMIC	100PF	5%	50V
C433	1-128-809-11	CERAMIC	100PF	5%	50V
C434	1-126-965-11	ELECT	22uF	20.00%	50V
C441	1-164-159-11	CERAMIC	0.1uF		50V
C442	1-164-159-11	CERAMIC	0.1uF		50V
C451	1-124-261-00	ELECT	10uF	20%	50V
C452	1-124-261-00	ELECT	10uF	20%	50V
C454	1-124-261-00	ELECT	10uF	20%	50V
C455	1-124-261-00	ELECT	10uF	20%	50V
C456	1-124-261-00	ELECT	10uF	20%	50V
C457	1-124-261-00	ELECT	10uF	20%	50V
C458	1-124-261-00	ELECT	10uF	20%	50V
C459	1-124-261-00	ELECT	10uF	20%	50V
C460	1-124-261-00	ELECT	10uF	20%	50V
C461	1-126-963-11	ELECT	4.7uF	20.00%	50V

Ref. No.	Part No.	Description			Remark
C462	1-130-481-00	MYLAR	0.0068uF	5%	50V
C463	1-136-495-11	MYLAR	0.068uF	5.00%	50V
C464	1-130-481-00	MYLAR	0.0068uF	5%	50V
C465	1-124-261-00	ELECT	10uF	20%	50V
C466	1-136-165-00	MYLAR	0.1uF	5.00%	50V
C467	1-136-165-00	MYLAR	0.1uF	5.00%	50V
C468	1-124-261-00	ELECT	10uF	20%	50V
C469	1-124-261-00	ELECT	10uF	20%	50V
C470	1-124-261-00	ELECT	10uF	20%	50V
C471	1-126-963-11	ELECT	4.7uF	20.00%	50V
C472	1-126-963-11	ELECT	4.7uF	20.00%	50V
C473	1-126-963-11	ELECT	4.7uF	20.00%	50V
C474	1-126-963-11	ELECT	4.7uF	20.00%	50V
C475	1-126-963-11	ELECT	4.7uF	20.00%	50V
C476	1-126-963-11	ELECT	4.7uF	20.00%	50V
C477	1-126-963-11	ELECT	4.7uF	20.00%	50V
C484	1-126-965-11	ELECT	22uF	20.00%	50V
C491	1-128-803-11	CERAMIC	33PF	5%	50V
C492	1-128-803-11	CERAMIC	33PF	5%	50V
C493	1-128-803-11	CERAMIC	33PF	5%	50V
C494	1-128-803-11	CERAMIC	33PF	5%	50V
C495	1-128-803-11	CERAMIC	33PF	5%	50V
C496	1-128-803-11	CERAMIC	33PF	5%	50V
C497	1-128-803-11	CERAMIC	33PF	5%	50V
C498	1-128-803-11	CERAMIC	33PF	5%	50V
C499	1-124-261-00	ELECT	10uF	20%	50V
C501	1-126-963-11	ELECT	4.7uF	20.00%	50V
C502	1-128-809-11	CERAMIC	100PF	5%	50V
C503	1-102-989-00	CERAMIC	68PF	5.00%	500V
C504	1-102-989-00	CERAMIC	68PF	5.00%	500V
C505	1-104-665-11	ELECT	100uF	20.00%	10V
C506	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C510	1-104-664-11	ELECT	47uF	20.00%	25V
C511	1-136-157-00	MYLAR	0.022uF	5.00%	50V
C520	1-128-813-11	CERAMIC	220PF	5%	50V
C524	1-126-960-11	ELECT	1uF	20.00%	50V
C526	1-127-876-11	CERAMIC	0.01uF	10%	50V
C601	1-126-963-11	ELECT	4.7uF	20.00%	50V
C603	1-104-665-11	ELECT	100uF	20.00%	10V
C604	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C605	1-102-233-00	CERAMIC	33PF	10.00%	500V
C606	1-128-809-11	CERAMIC	100PF	5%	50V
C607	1-128-809-11	CERAMIC	100PF	5%	50V
C610	1-104-664-11	ELECT	47uF	20.00%	16V
C611	1-136-157-00	MYLAR	0.022uF	5.00%	50V
C620	1-128-813-11	CERAMIC	220PF	5%	50V
C624	1-126-960-11	ELECT	1uF	20.00%	50V
C626	1-127-876-11	CERAMIC	0.01uF	10%	50V
C651	1-126-963-11	ELECT	4.7uF	20.00%	50V
C653	1-104-665-11	ELECT	100uF	20.00%	10V
C654	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C655	1-102-233-00	CERAMIC	33PF	10.00%	500V
C656	1-128-809-11	CERAMIC	100PF	5%	50V
C657	1-128-809-11	CERAMIC	100PF	5%	50V
C660	1-104-664-11	ELECT	47uF	20.00%	16V
C661	1-136-157-00	MYLAR	0.022uF	5.00%	50V
C670	1-128-813-11	CERAMIC	220PF	5%	50V
C701	1-126-963-11	ELECT	4.7uF	20.00%	50V

MAIN

Ref. No.	Part No.	Description			Remark
C703	1-104-665-11	ELECT	100uF	20.00%	10V
C704	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C705	1-102-233-00	CERAMIC	33PF	10.00%	500V
C706	1-128-809-11	CERAMIC	100PF	5%	50V
C707	1-128-809-11	CERAMIC	100PF	5%	50V
C710	1-104-664-11	ELECT	47uF	20.00%	16V
C711	1-136-157-00	MYLAR	0.022uF	5.00%	50V
C720	1-128-813-11	CERAMIC	220PF	5%	50V
C721	1-126-934-11	ELECT	220uF	20.00%	10V
C722	1-124-261-00	ELECT	10uF	20%	50V
C724	1-126-960-11	ELECT	1uF	20.00%	50V
C726	1-127-876-11	CERAMIC	0.01uF	10%	50V
C734	1-126-960-11	ELECT	1uF	20.00%	50V
C736	1-127-876-11	CERAMIC	0.01uF	10%	50V
C740	1-128-582-11	ELECT	10uF	20.00%	100V
C741	1-128-582-11	ELECT	10uF	20.00%	100V
C751	1-126-963-11	ELECT	4.7uF	20.00%	50V
C753	1-104-665-11	ELECT	100uF	20.00%	10V
C754	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C755	1-102-233-00	CERAMIC	33PF	10.00%	500V
C756	1-128-809-11	CERAMIC	100PF	5%	50V
C757	1-128-809-11	CERAMIC	100PF	5%	50V
C760	1-104-664-11	ELECT	47uF	20.00%	16V
C761	1-136-157-00	MYLAR	0.022uF	5.00%	50V
C770	1-128-813-11	CERAMIC	220PF	5%	50V
C801	1-126-947-11	ELECT	47uF	20.00%	35V
C802	1-126-947-11	ELECT	47uF	20.00%	35V
C803	1-109-932-11	ELECT(BLOCK)	10000uF	20.00%	71V (DE545,SE501)
C803	1-117-203-11	ELECT(BLOCK)	10000uF	20.00%	63V (DE445)
C804	1-109-932-11	ELECT(BLOCK)	10000uF	20.00%	71V (DE545,SE501)
C804	1-117-203-11	ELECT(BLOCK)	10000uF	20.00%	63V (DE445)
C805	1-125-956-11	FILM	0.22uF	5.00%	100V
C806	1-125-956-11	FILM	0.22uF	5.00%	100V
C807	1-104-665-11	ELECT	100uF	20.00%	10V
C808	1-104-665-11	ELECT	100uF	20.00%	10V
C810	1-164-159-11	CERAMIC	0.1uF		50V
C811	1-126-943-11	ELECT	2200uF	20.00%	25V
C812	1-126-941-11	ELECT	470uF	20.00%	25V
C813	1-164-159-11	CERAMIC	0.1uF		50V
C814	1-164-159-11	CERAMIC	0.1uF		50V
C815	1-126-960-11	ELECT	1uF	20.00%	50V
C816	1-104-664-11	ELECT	47uF	20.00%	25V
C817	1-126-936-11	ELECT	3300uF	20.00%	16V
C818	1-104-664-11	ELECT	47uF	20.00%	25V
C825	1-164-159-11	CERAMIC	0.1uF		50V
C826	1-104-664-11	ELECT	47uF	20.00%	25V
C827	1-104-664-11	ELECT	47uF	20.00%	25V
C896	1-104-664-11	ELECT	47uF	20.00%	16V
C897	1-164-159-11	CERAMIC	0.1uF		50V
C898	1-126-948-11	ELECT	100uF	20.00%	35V
C899	1-126-948-11	ELECT	100uF	20.00%	35V
C920	1-164-159-11	CERAMIC	0.1uF		50V
C921	1-164-159-11	CERAMIC	0.1uF		50V

Ref. No.	Part No.	Description				Remark
		< CAPACITOR >				
CC01	1-128-809-11	CERAMIC	100PF	5%	50V	(EXCEPT US,CND,E,PX)
CC02	1-128-809-11	CERAMIC	100PF	5%	50V	(EXCEPT US,CND,E,PX)
CC03	1-128-809-11	CERAMIC	100PF	5%	50V	(EXCEPT US,CND,E,PX)
CC04	1-128-809-11	CERAMIC	100PF	5%	50V	(EXCEPT US,CND,E,PX)
CC05	1-128-809-11	CERAMIC	100PF	5%	50V	(EXCEPT US,CND,E,PX)
CC06	1-128-809-11	CERAMIC	100PF	5%	50V	(EXCEPT US,CND,E,PX)
CC07	1-128-809-11	CERAMIC	100PF	5%	50V	(EXCEPT US,CND,E,PX)
CC08	1-128-809-11	CERAMIC	100PF	5%	50V	(EXCEPT US,CND,E,PX)
CC09	1-128-809-11	CERAMIC	100PF	5%	50V	(EXCEPT US,CND,E,PX)
CC10	1-128-809-11	CERAMIC	100PF	5%	50V	(EXCEPT US,CND,E,PX)
CC11	1-128-809-11	CERAMIC	100PF	5%	50V	(EXCEPT US,CND,E,PX)
CC12	1-127-876-11	CERAMIC	0.01uF	10%	50V	(EXCEPT E,PX)
CC14	1-127-876-11	CERAMIC	0.01uF	10%	50V	(EXCEPT E,PX)
CC16	1-127-876-11	CERAMIC	0.01uF	10%	50V	(EXCEPT E,PX)
CC18	1-127-876-11	CERAMIC	0.01uF	10%	50V	(EXCEPT E,PX)
CC20	1-127-876-11	CERAMIC	0.01uF	10%	50V	(EXCEPT E,PX)
CC22	1-127-876-11	CERAMIC	0.01uF	10%	50V	(EXCEPT DE445,E,PX)
CC24	1-127-876-11	CERAMIC	0.01uF	10%	50V	(EXCEPT DE445,E,PX)
CC51	1-128-809-11	CERAMIC	100PF	5%	50V	(EXCEPT US,CND,E,PX)
CC52	1-128-809-11	CERAMIC	100PF	5%	50V	(EXCEPT US,CND,E,PX)
CC53	1-128-809-11	CERAMIC	100PF	5%	50V	(EXCEPT US,CND,E,PX)
CC54	1-128-809-11	CERAMIC	100PF	5%	50V	(EXCEPT US,CND,E,PX)
CC55	1-128-809-11	CERAMIC	100PF	5%	50V	(EXCEPT US,CND,E,PX)
CC56	1-128-809-11	CERAMIC	100PF	5%	50V	(EXCEPT US,CND,E,PX)
CC57	1-128-809-11	CERAMIC	100PF	5%	50V	(EXCEPT US,CND,E,PX)
CC58	1-128-809-11	CERAMIC	100PF	5%	50V	(EXCEPT US,CND,E,PX)
CC59	1-128-809-11	CERAMIC	100PF	5%	50V	(EXCEPT US,CND,E,PX)
CC60	1-128-809-11	CERAMIC	100PF	5%	50V	(EXCEPT US,CND,E,PX)
CC61	1-128-809-11	CERAMIC	100PF	5%	50V	(EXCEPT US,CND,E,PX)
		< CONNECTOR >				
CNP301	1-794-003-11	CONNECTOR 15P(AEP,UK,CIS)				

Ref. No.	Part No.	Description	Remark
CNP301	1-794-002-11	CONNECTOR 13P(EXCEPT AEP,UK,CIS)	
CNP791	1-779-978-11	PIN, CONNECTOR 3P	
* CNP801	1-564-104-00	PIN, CONNECTOR (B3P-VH) 3P	
CNP802	1-691-770-11	PLUG (MICRO CONNECTOR) 8P	
CNP911	1-691-773-11	PLUG (MICRO CONNECTOR) 11P	
		< CONNECTOR >	
CNS401	1-569-321-11	SOCKET, CONNECTOR 15P	
		< DIODE >	
D505	8-719-911-19	DIODE 1SS133T-72	
D506	8-719-911-19	DIODE 1SS133T-72	
D508	8-719-911-19	DIODE 1SS133T-72	
D510	8-719-911-19	DIODE 1SS133T-72	
D560	8-719-911-19	DIODE 1SS133T-72	
D605	8-719-911-19	DIODE 1SS133T-72	
D606	8-719-911-19	DIODE 1SS133T-72	
D607	8-719-911-19	DIODE 1SS133T-72	
D610	8-719-911-19	DIODE 1SS133T-72	
D617	8-719-911-19	DIODE 1SS133T-72	
D627	8-719-911-19	DIODE 1SS133T-72	
D691	8-719-911-19	DIODE 1SS133T-72	
D692	8-719-911-19	DIODE 1SS133T-72	
D706	8-719-911-19	DIODE 1SS133T-72	
D710	8-719-911-19	DIODE 1SS133T-72	
D721	8-719-911-19	DIODE 1SS133T-72	
D722	8-719-911-19	DIODE 1SS133T-72	
D725	8-719-911-19	DIODE 1SS133T-72	
D726	8-719-911-19	DIODE 1SS133T-72	
D727	8-719-911-19	DIODE 1SS133T-72	
D728	8-719-911-19	DIODE 1SS133T-72	
D731	8-719-911-19	DIODE 1SS133T-72	
D732	8-719-911-19	DIODE 1SS133T-72	
D734	8-719-911-19	DIODE 1SS133T-72	
D735	8-719-911-19	DIODE 1SS133T-72	
D736	8-719-911-19	DIODE 1SS133T-72(DE545,SE501)	
D740	8-719-911-19	DIODE 1SS133T-72	
D757	8-719-911-19	DIODE 1SS133T-72	
D791	8-719-911-19	DIODE 1SS133T-72	
D801	8-719-934-21	DIODE HZS30-1LTA	
D802	8-719-072-05	DIODE RBV-602LF-A	
D804	8-719-069-68	DIODE RD5.6F-T7	
D820	8-719-024-99	DIODE 11ES2-NTA2B	
D821	8-719-024-99	DIODE 11ES2-NTA2B	
D822	8-719-024-99	DIODE 11ES2-NTA2B	
D823	8-719-024-99	DIODE 11ES2-NTA2B	
D824	8-719-024-99	DIODE 11ES2-NTA2B	
D825	8-719-024-99	DIODE 11ES2-NTA2B	
D826	8-719-024-99	DIODE 11ES2-NTA2B	
D827	8-719-024-99	DIODE 11ES2-NTA2B	
D833	8-719-043-76	DIODE AK04V1	
D896	8-719-043-76	DIODE AK04V1	
D898	8-719-024-99	DIODE 11ES2-NTA2B	
D899	8-719-024-99	DIODE 11ES2-NTA2B	
		< TERMINAL >	
* G401	1-537-738-21	TERMINAL, EARTH	
* G801	1-537-738-21	TERMINAL, EARTH	

Ref. No.	Part No.	Description	Remark
		< IC >	
IC201	8-759-655-38	IC M61501FP	
IC301	8-759-557-36	IC BU1924F-E2(AEP,UK,CIS)	
IC401	8-759-636-74	IC M5218AP-22	
IC402	8-759-636-74	IC M5218AP-22	
IC403	8-759-636-74	IC M5218AP-22	
IC404	8-759-636-74	IC M5218AP-22	
IC501	8-749-011-16	IC STK350-230	
IC701	8-759-326-52	IC uPC2581V	
IC702	8-759-326-52	IC uPC2581V	
IC801	8-759-605-00	IC M5F78M07L	
IC802	8-759-604-95	IC M5F79M07L	
IC803	8-759-039-69	IC uPC7805AHF	
IC804	8-759-039-69	IC uPC7805AHF	
IC806	8-759-376-91	IC uPC78M12AHF	
IC807	8-759-708-05	IC NJM78L05A-T3	
		< JACK >	
J253	1-774-843-11	JACK, PIN 1P(SUB WOOFER OUT)	
J401	1-770-614-11	JACK, PIN 4P(AUX/CD IN)	
J402	1-580-825-11	JACK, PIN 6P(MD/TAPE,TV/SAT)	
J403	1-580-825-11	JACK, PIN 6P(DVD/LD,VIDEO)	
J501	1-779-380-11	JACK, PIN 6P(5.1CH INPUT)	
		< COIL >	
L301	1-408-080-00	INDUCTOR 100uH(AEP,UK,CIS)	
L521	1-420-872-00	COIL, AIR-CORE	
L601	1-420-872-00	COIL, AIR-CORE	
L651	1-420-872-00	COIL, AIR-CORE	
L701	1-420-872-00	COIL, AIR-CORE	
L751	1-420-872-00	COIL, AIR-COREORE	
		< TRANSISTOR >	
Q361	8-729-823-22	TRANSISTOR 2SC3576-AC	
Q362	8-729-823-22	TRANSISTOR 2SC3576-AC	
Q363	8-729-823-22	TRANSISTOR 2SC3576-AC	
Q364	8-729-823-22	TRANSISTOR 2SC3576-AC	
Q365	8-729-823-22	TRANSISTOR 2SC3576-AC	
Q366	8-729-823-22	TRANSISTOR 2SC3576-AC	
Q379	8-729-900-63	TRANSISTOR BN1F4M-TP	
Q501	8-729-119-76	TRANSISTOR 2SA1115TP-EF	
Q502	8-729-141-30	TRANSISTOR 2SC3623ATP-LK	
Q503	8-749-010-25	IC MN2488-OPY-M	
Q504	8-749-010-26	IC MP1620-OPY-M	
Q505	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
Q506	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
Q507	8-729-900-63	TRANSISTOR BN1F4M-TP	
Q509	8-729-281-53	TRANSISTOR 2SC1815GR-TPE2	
Q550	8-729-119-79	TRANSISTOR 2SC2785TP-FEK	
Q560	8-729-119-79	TRANSISTOR 2SC2785TP-FEK	
Q601	8-729-119-76	TRANSISTOR 2SA1115TP-EF	
Q602	8-729-141-30	TRANSISTOR 2SC3623ATP-LK	
Q603	8-749-010-25	IC MN2488-OPY-M	
Q604	8-749-010-26	IC MP1620-OPY-M	
Q605	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
Q606	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
Q610	8-729-119-79	TRANSISTOR 2SC2785TP-FEK	
Q651	8-729-119-76	TRANSISTOR 2SA1115TP-EF	

MAIN

Ref. No.	Part No.	Description	Remark
Q652	8-729-141-30	TRANSISTOR 2SC3623ATP-LK	
Q653	8-749-010-25	IC MN2488-OPY-M	
Q654	8-749-010-26	IC MP1620-OPY-M	
Q655	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
Q656	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
Q657	8-729-900-63	TRANSISTOR BN1F4M-TP	
Q658	8-729-281-53	TRANSISTOR 2SC1815GR-TPE2	
Q659	8-729-900-63	TRANSISTOR BN1F4M-TP	
Q691	8-729-281-53	TRANSISTOR 2SC1815GR-TPE2	
Q692	8-729-900-36	TRANSISTOR BA1F4M-TP	
Q693	8-729-281-53	TRANSISTOR 2SC1815GR-TPE2	
Q694	8-729-900-36	TRANSISTOR BA1F4M-TP	
Q695	8-729-201-53	TRANSISTOR 2SA1015TP-YGR	
Q696	8-729-900-63	TRANSISTOR BN1F4M-TP	
Q697	8-729-900-36	TRANSISTOR BA1F4M-TP	
Q701	8-729-119-76	TRANSISTOR 2SA1115TP-EF	
Q702	8-729-141-30	TRANSISTOR 2SC3623ATP-LK	
Q703	8-749-010-25	IC MN2488-OPY-M	
Q704	8-749-010-26	IC MP1620-OPY-M	
Q705	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
Q706	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
Q707	8-729-900-63	TRANSISTOR BN1F4M-TP	
Q708	8-729-900-63	TRANSISTOR BN1F4M-TP	
Q709	8-729-281-53	TRANSISTOR 2SC1815GR-TPE2	
Q722	8-729-140-84	TRANSISTOR 2SC1841TP-PAFAEA	
Q723	8-729-119-79	TRANSISTOR 2SC2785TP-FEK	
Q725	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
Q730	8-729-119-79	TRANSISTOR 2SC2785TP-FEK	
Q740	8-729-119-79	TRANSISTOR 2SC2785TP-FEK (DE545,SE501)	
Q747	8-729-900-63	TRANSISTOR BN1F4M-TP	
Q748	8-729-900-63	TRANSISTOR BN1F4M-TP	
Q751	8-729-119-76	TRANSISTOR 2SA1115TP-EF	
Q752	8-729-141-30	TRANSISTOR 2SC3623ATP-LK	
Q753	8-749-010-25	IC MN2488-OPY-M	
Q754	8-749-010-26	IC MP1620-OPY-M	
Q755	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
Q756	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
Q757	8-729-900-63	TRANSISTOR BN1F4M-TP	
Q758	8-729-281-53	TRANSISTOR 2SC1815GR-TPE2	
Q759	8-729-900-63	TRANSISTOR BN1F4M-TP	
Q791	8-729-119-79	TRANSISTOR 2SC2785TP-FEK	
Q801	8-729-026-68	TRANSISTOR 2SD2525(TP)	

< RESISTOR >

Ref. No.	Part No.	Description			Remark
R305	1-249-421-11	CARBON	2.2K	5%	1/4W F (AEP,UK,CIS)
R306	1-247-807-31	CARBON	100	5%	1/4W (AEP,UK,CIS)
R307	1-247-807-31	CARBON	100	5%	1/4W (AEP,UK,CIS)
R326	1-249-436-11	CARBON	39K	5%	1/4W
R327	1-249-436-11	CARBON	39K	5%	1/4W
R328	1-249-433-11	CARBON	22K	5%	1/4W
R360	1-249-437-11	CARBON	47K	5%	1/4W
R361	1-249-429-11	CARBON	10K	5%	1/4W
R362	1-249-429-11	CARBON	10K	5%	1/4W
R363	1-249-437-11	CARBON	47K	5%	1/4W
R366	1-249-429-11	CARBON	10K	5%	1/4W
R367	1-249-437-11	CARBON	47K	5%	1/4W
R368	1-249-437-11	CARBON	47K	5%	1/4W
R369	1-249-429-11	CARBON	10K	5%	1/4W
R370	1-249-429-11	CARBON	10K	5%	1/4W
R371	1-249-437-11	CARBON	47K	5%	1/4W
R372	1-249-437-11	CARBON	47K	5%	1/4W
R373	1-247-807-31	CARBON	100	5%	1/4W
R374	1-247-807-31	CARBON	100	5%	1/4W
R375	1-247-807-31	CARBON	100	5%	1/4W
R376	1-247-807-31	CARBON	100	5%	1/4W
R377	1-247-807-31	CARBON	100	5%	1/4W
R378	1-247-807-31	CARBON	100	5%	1/4W
R379	1-249-429-11	CARBON	10K	5%	1/4W
R380	1-249-441-11	CARBON	100K	5%	1/4W
R381	1-249-429-11	CARBON	10K	5%	1/4W
R401	1-249-417-11	CARBON	1K	5%	1/4W F
R402	1-249-417-11	CARBON	1K	5%	1/4W F
R403	1-249-417-11	CARBON	1K	5%	1/4W F
R404	1-249-417-11	CARBON	1K	5%	1/4W F
R405	1-249-417-11	CARBON	1K	5%	1/4W F
R406	1-249-417-11	CARBON	1K	5%	1/4W F
R407	1-249-417-11	CARBON	1K	5%	1/4W F
R408	1-249-417-11	CARBON	1K	5%	1/4W F
R409	1-249-417-11	CARBON	1K	5%	1/4W F
R410	1-249-417-11	CARBON	1K	5%	1/4W F
R411	1-249-417-11	CARBON	1K	5%	1/4W F
R412	1-249-437-11	CARBON	47K	5%	1/4W
R413	1-249-437-11	CARBON	47K	5%	1/4W
R416	1-249-429-11	CARBON	10K	5%	1/4W
R421	1-249-437-11	CARBON	47K	5%	1/4W
R422	1-249-437-11	CARBON	47K	5%	1/4W
R424	1-249-437-11	CARBON	47K	5%	1/4W
R425	1-249-437-11	CARBON	47K	5%	1/4W
R426	1-249-437-11	CARBON	47K	5%	1/4W
R428	1-249-437-11	CARBON	47K	5%	1/4W
R431	1-249-437-11	CARBON	47K	5%	1/4W
R432	1-249-437-11	CARBON	47K	5%	1/4W
R433	1-249-437-11	CARBON	47K	5%	1/4W
R434	1-249-437-11	CARBON	47K	5%	1/4W
R441	1-249-437-11	CARBON	47K	5%	1/4W
R442	1-249-437-11	CARBON	47K	5%	1/4W
R444	1-249-437-11	CARBON	47K	5%	1/4W
R445	1-249-437-11	CARBON	47K	5%	1/4W
R446	1-249-437-11	CARBON	47K	5%	1/4W
R447	1-249-437-11	CARBON	47K	5%	1/4W
R451	1-249-417-11	CARBON	1K	5%	1/4W F
R452	1-249-417-11	CARBON	1K	5%	1/4W F
R453	1-249-417-11	CARBON	1K	5%	1/4W F
R454	1-249-417-11	CARBON	1K	5%	1/4W F
R455	1-249-417-11	CARBON	1K	5%	1/4W F
R456	1-249-417-11	CARBON	1K	5%	1/4W F
R457	1-249-417-11	CARBON	1K	5%	1/4W F
R458	1-249-417-11	CARBON	1K	5%	1/4W F
R459	1-249-417-11	CARBON	1K	5%	1/4W F
R460	1-249-417-11	CARBON	1K	5%	1/4W F
R461	1-249-417-11	CARBON	1K	5%	1/4W F
R463	1-249-437-11	CARBON	47K	5%	1/4W
R464	1-249-437-11	CARBON	47K	5%	1/4W

Ref. No.	Part No.	Description			Remark
R465	1-249-437-11	CARBON	47K	5%	1/4W
R466	1-249-429-11	CARBON	10K	5%	1/4W
R467	1-249-437-11	CARBON	47K	5%	1/4W
R468	1-249-437-11	CARBON	47K	5%	1/4W
R469	1-249-417-11	CARBON	1K	5%	1/4W F
R470	1-249-437-11	CARBON	47K	5%	1/4W
R471	1-249-429-11	CARBON	10K	5%	1/4W
R472	1-249-429-11	CARBON	10K	5%	1/4W
R473	1-249-421-11	CARBON	2.2K	5%	1/4W F
R474	1-249-429-11	CARBON	10K	5%	1/4W
R475	1-249-429-11	CARBON	10K	5%	1/4W
R476	1-249-429-11	CARBON	10K	5%	1/4W
R477	1-249-429-11	CARBON	10K	5%	1/4W
R478	1-249-429-11	CARBON	10K	5%	1/4W
R479	1-249-429-11	CARBON	10K	5%	1/4W
R480	1-247-843-11	CARBON	3.3K	5%	1/4W
R481	1-249-429-11	CARBON	10K	5%	1/4W
R482	1-247-843-11	CARBON	3.3K	5%	1/4W
R483	1-249-429-11	CARBON	10K	5%	1/4W
R484	1-247-843-11	CARBON	3.3K	5%	1/4W
R485	1-249-429-11	CARBON	10K	5%	1/4W
R486	1-247-843-11	CARBON	3.3K	5%	1/4W
R487	1-249-437-11	CARBON	47K	5%	1/4W
R488	1-249-437-11	CARBON	47K	5%	1/4W
R489	1-249-437-11	CARBON	47K	5%	1/4W
R490	1-249-437-11	CARBON	47K	5%	1/4W
R491	1-249-437-11	CARBON	47K	5%	1/4W
R492	1-249-437-11	CARBON	47K	5%	1/4W
R499	1-249-437-11	CARBON	47K	5%	1/4W
R501	1-249-417-11	CARBON	1K	5%	1/4W F
R502	1-249-439-11	CARBON	68K	5%	1/4W
R503	1-249-413-11	CARBON	470	5%	1/4W F (DE545,SE501)
R503	1-249-415-11	CARBON	680	5%	1/4W F (DE445)
R504	1-249-411-11	CARBON	330	5%	1/4W
R505	1-249-439-11	CARBON	68K	5%	1/4W
R507	1-249-433-11	CARBON	22K	5%	1/4W
R510	1-249-421-11	CARBON	2.2K	5%	1/4W F
R511	1-249-437-11	CARBON	47K	5%	1/4W
R513	1-249-414-11	CARBON	560	5%	1/4W F
R514	1-249-408-11	CARBON	180	5%	1/4W F
R515	1-249-408-11	CARBON	180	5%	1/4W F
R516	1-234-182-11	ENCAPSULATED COMPONENT			
R517	1-249-393-11	CARBON	10	5%	1/4W F
R520	1-249-425-11	CARBON	4.7K	5%	1/4W F
R521	1-249-417-11	CARBON	1K	5%	1/4W F
R522	1-249-419-11	CARBON	1.5K	5%	1/4W F
R528	1-249-389-11	CARBON	4.7	5%	1/4W F
R529	1-247-866-11	CARBON	30K	5%	1/4W
R530	1-249-425-11	CARBON	4.7K	5%	1/4W F
R531	1-249-425-11	CARBON	4.7K	5%	1/4W F
R532	1-249-425-11	CARBON	4.7K	5%	1/4W F
R533	1-249-437-11	CARBON	47K	5%	1/4W
R535	1-249-431-11	CARBON	15K	5%	1/4W
R539	1-249-422-11	CARBON	2.7K	5%	1/4W F (AEP,UK,CIS)
R539	1-249-421-11	CARBON	2.2K	5%	1/4W F (EXCEPT AEP,UK,CIS)

Ref. No.	Part No.	Description			Remark
R540	1-247-881-00	CARBON	120K	5%	1/4W
R541	1-249-431-11	CARBON	15K	5%	1/4W
R573	1-249-437-11	CARBON	47K	5%	1/4W
R601	1-249-417-11	CARBON	1K	5%	1/4W F
R602	1-249-439-11	CARBON	68K	5%	1/4W
R603	1-249-413-11	CARBON	470	5%	1/4W F (DE545,SE501)
R603	1-249-415-11	CARBON	680	5%	1/4W F (DE445)
R604	1-249-439-11	CARBON	68K	5%	1/4W
R610	1-249-421-11	CARBON	2.2K	5%	1/4W F
R611	1-249-440-11	CARBON	82K	5%	1/4W
R613	1-249-414-11	CARBON	560	5%	1/4W F
R614	1-249-408-11	CARBON	180	5%	1/4W F
R615	1-249-408-11	CARBON	180	5%	1/4W F
R616	1-234-182-11	ENCAPSULATED COMPONENT			
R617	1-249-393-11	CARBON	10	5%	1/4W F
R618	1-249-389-11	CARBON	4.7	5%	1/4W F
R620	1-249-425-11	CARBON	4.7K	5%	1/4W F
R621	1-247-850-11	CARBON	6.2K	5%	1/4W
R622	1-249-419-11	CARBON	1.5K	5%	1/4W F
R623	1-249-437-11	CARBON	47K	5%	1/4W
R625	1-247-881-00	CARBON	120K	5%	1/4W
R626	1-249-431-11	CARBON	15K	5%	1/4W
R630	1-249-425-11	CARBON	4.7K	5%	1/4W F
R631	1-249-425-11	CARBON	4.7K	5%	1/4W F
R638	1-247-881-00	CARBON	120K	5%	1/4W
R651	1-249-417-11	CARBON	1K	5%	1/4W F
R652	1-249-439-11	CARBON	68K	5%	1/4W
R653	1-249-413-11	CARBON	470	5%	1/4W F (DE545,SE501)
R653	1-249-415-11	CARBON	680	5%	1/4W F (DE445)
R654	1-249-439-11	CARBON	68K	5%	1/4W
R660	1-249-421-11	CARBON	2.2K	5%	1/4W F
R661	1-249-440-11	CARBON	82K	5%	1/4W
R663	1-249-414-11	CARBON	560	5%	1/4W F
R664	1-249-408-11	CARBON	180	5%	1/4W F
R665	1-249-408-11	CARBON	180	5%	1/4W F
R666	1-234-182-11	ENCAPSULATED COMPONENT			
R667	1-249-393-11	CARBON	10	5%	1/4W F
R668	1-249-389-11	CARBON	4.7	5%	1/4W F
R670	1-249-425-11	CARBON	4.7K	5%	1/4W F
R671	1-247-850-11	CARBON	6.2K	5%	1/4W
R672	1-249-419-11	CARBON	1.5K	5%	1/4W F
R674	1-247-866-11	CARBON	30K	5%	1/4W
R675	1-249-422-11	CARBON	2.7K	5%	1/4W F (AEP,UK,CIS)
R675	1-249-421-11	CARBON	2.2K	5%	1/4W F (EXCEPT AEP,UK,CIS)
R676	1-249-431-11	CARBON	15K	5%	1/4W
R677	1-249-433-11	CARBON	22K	5%	1/4W
R678	1-249-433-11	CARBON	22K	5%	1/4W
R683	1-249-437-11	CARBON	47K	5%	1/4W
R684	1-249-431-11	CARBON	15K	5%	1/4W
R691	1-215-888-00	METAL OXIDE	220	5%	2W
R692	1-215-885-00	METAL OXIDE	68	5%	2W
R693	1-216-456-00	METAL OXIDE	820	5%	2W
R694	1-216-456-00	METAL OXIDE	820	5%	2W

MAIN

Ref. No.	Part No.	Description			Remark
R696	1-249-405-11	CARBON	100	5%	1/4W F
R697	1-249-441-11	CARBON	100K	5%	1/4W
R698	1-249-441-11	CARBON	100K	5%	1/4W
R699	1-215-888-00	METAL OXIDE	220	5%	2W
R701	1-249-417-11	CARBON	1K	5%	1/4W F
R702	1-249-439-11	CARBON	68K	5%	1/4W
R703	1-249-413-11	CARBON	470	5%	1/4W F
					(DE545,SE501)
R703	1-249-415-11	CARBON	680	5%	1/4W F
					(DE445)
R704	1-249-439-11	CARBON	68K	5%	1/4W
R705	1-249-441-11	CARBON	100K	5%	1/4W
R710	1-249-421-11	CARBON	2.2K	5%	1/4W F
R711	1-249-440-11	CARBON	82K	5%	1/4W
R713	1-249-414-11	CARBON	560	5%	1/4W F
R714	1-249-408-11	CARBON	180	5%	1/4W F
R715	1-249-408-11	CARBON	180	5%	1/4W F
R716	1-234-182-11	ENCAPSULATED COMPONENT			
R717	1-249-393-11	CARBON	10	5%	1/4W F
R718	1-249-389-11	CARBON	4.7	5%	1/4W F
R719	1-249-425-11	CARBON	4.7K	5%	1/4W F
R721	1-247-850-11	CARBON	6.2K	5%	1/4W
R722	1-249-419-11	CARBON	1.5K	5%	1/4W F
R723	1-249-437-11	CARBON	47K	5%	1/4W
R724	1-247-881-00	CARBON	120K	5%	1/4W
R727	1-249-433-11	CARBON	22K	5%	1/4W
R730	1-249-425-11	CARBON	4.7K	5%	1/4W F
R731	1-249-425-11	CARBON	4.7K	5%	1/4W F
R732	1-249-381-11	CARBON	1	5%	1/4W F
R733	1-249-381-11	CARBON	1	5%	1/4W F
R735	1-249-427-11	CARBON	6.8K	5%	1/4W F
R736	1-249-417-11	CARBON	1K	5%	1/4W F
R737	1-249-436-11	CARBON	39K	5%	1/4W
R738	1-247-881-00	CARBON	120K	5%	1/4W
R739	1-249-431-11	CARBON	15K	5%	1/4W
R740	1-247-866-11	CARBON	30K	5%	1/4W
R741	1-249-425-11	CARBON	4.7K	5%	1/4W F
					(DE545,SE501)
R743	1-249-433-11	CARBON	22K	5%	1/4W
R744	1-249-431-11	CARBON	15K	5%	1/4W
R745	1-249-422-11	CARBON	2.7K	5%	1/4W F
					(AEP,UK,CIS)
R745	1-249-421-11	CARBON	2.2K	5%	1/4W F
					(EXCEPT AEP,UK,CIS)
R746	1-249-433-11	CARBON	22K	5%	1/4W
R747	1-249-433-11	CARBON	22K	5%	1/4W
R748	1-249-437-11	CARBON	47K	5%	1/4W
R749	1-249-425-11	CARBON	4.7K	5%	1/4W F
					(DE545,SE501)
R751	1-249-417-11	CARBON	1K	5%	1/4W F
R752	1-249-439-11	CARBON	68K	5%	1/4W
R753	1-249-413-11	CARBON	470	5%	1/4W F
					(DE545,SE501)
R753	1-249-415-11	CARBON	680	5%	1/4W F
					(DE445)
R754	1-249-439-11	CARBON	68K	5%	1/4W
R760	1-249-421-11	CARBON	2.2K	5%	1/4W F

Ref. No.	Part No.	Description			Remark
R761	1-249-440-11	CARBON	82K	5%	1/4W
R763	1-249-414-11	CARBON	560	5%	1/4W F
R764	1-249-408-11	CARBON	180	5%	1/4W F
R765	1-249-408-11	CARBON	180	5%	1/4W F
R766	1-234-182-11	ENCAPSULATED COMPONENT			
R767	1-249-393-11	CARBON	10	5%	1/4W F
R768	1-249-389-11	CARBON	4.7	5%	1/4W F
R770	1-249-425-11	CARBON	4.7K	5%	1/4W F
R771	1-247-850-11	CARBON	6.2K	5%	1/4W
R772	1-249-419-11	CARBON	1.5K	5%	1/4W F
R775	1-249-422-11	CARBON	2.7K	5%	1/4W F
					(AEP,UK,CIS)
R775	1-249-421-11	CARBON	2.2K	5%	1/4W F
					(EXCEPT AEP,UK,CIS)
R776	1-249-431-11	CARBON	15K	5%	1/4W
R777	1-247-866-11	CARBON	30K	5%	1/4W
R778	1-249-431-11	CARBON	15K	5%	1/4W
R779	1-249-437-11	CARBON	47K	5%	1/4W
R791	1-215-868-00	METAL OXIDE	680	5%	1W
R793	1-249-425-11	CARBON	4.7K	5%	1/4W F
R799	1-215-868-00	METAL OXIDE	680	5%	1W
R800	1-249-400-11	CARBON	39	5%	1/4W F
R801	1-249-381-11	CARBON	1	5%	1/4W F
R802	1-249-381-11	CARBON	1	5%	1/4W F
R803	1-249-400-11	CARBON	39	5%	1/4W F
R804	1-249-427-11	CARBON	6.8K	5%	1/4W F
R805	1-249-433-11	CARBON	22K	5%	1/4W
⚠R810	1-240-877-11	FUSIBLE	0.15	5%	1/2W
⚠R811	1-240-877-11	FUSIBLE	0.15	5%	1/2W
⚠R812	1-243-635-91	FUSIBLE	0.33	5%	1/2W
⚠R813	1-240-877-11	FUSIBLE	0.15	5%	1/2W
		< RESISTOR >			
RR11	1-249-393-11	CARBON	10	5%	1/4W F
					(EXCEPT E,PX)
RR12	1-249-393-11	CARBON	10	5%	1/4W F
					(EXCEPT E,PX)
RR13	1-249-393-11	CARBON	10	5%	1/4W F
					(EXCEPT E,PX)
RR14	1-249-393-11	CARBON	10	5%	1/4W F
					(EXCEPT E,PX)
RR15	1-249-393-11	CARBON	10	5%	1/4W F
					(EXCEPT E,PX)
RR21	1-249-393-11	CARBON	10	5%	1/4W F
					(EXCEPT DE445,E,PX)
RR22	1-249-393-11	CARBON	10	5%	1/4W F
					(EXCEPT DE445,E,PX)
RR448	1-249-437-11	CARBON	47K	5%	1/4W
		< RELAY >			
RY550	1-755-170-11	RELAY (12V)			
RY560	1-755-267-11	RELAY			
RY601	1-755-170-11	RELAY (12V)			
RY730	1-755-170-11	RELAY (12V)			
RY740	1-755-170-11	RELAY (12V)(DE545,SE501)			
RY791	1-515-614-11	RELAY			

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.	以阴影和 ⚠ 标志来识别的零部件，在安全方面具有关键性．因此只能以规定号码的零部件来更换．

Ref. No.	Part No.	Description	Remark
		< SWITCH >	
S501	1-771-692-11	SWITCH, SLIDE(IMPEDANCE SELECTOR)	(DE545,SE501)
		< TERMINAL >	
TM601	1-537-923-11	TERMINAL BOARD (SPEAKER) (6P)	(REAR,CENTER)
TM602	1-694-652-11	TERMINAL BOARD (SP)(FRONT)(DE545,SE501)	
TM602	1-537-925-61	TERMINAL BOARD(FRONT)(DE445)	
		< VIBRATOR >	
X301	1-579-900-21	VIBRATOR, CRYSTAL 4.33MHz(AEP,UK,CIS)	
**********			
	1-676-784-11	POWER SWITCH BOARD	
		**********	
		< CONNECTOR >	
CNS100	1-573-105-11	CONNECTOR, PC BOARD 4P	
		< SWITCH >	
S150	1-771-410-21	SWITCH, TACTILE(I/⏻)	
S151	1-771-854-11	SWITCH, PUSH (1 KEY)(SPEAKER A)	
S152	1-771-854-11	SWITCH, PUSH (1 KEY)(SPEAKER B)	(DE545,SE501)
**********			
	A-4428-435-A	STBY BOARD, COMPLETE (US,CND)	
		**********	
	A-4428-478-A	STBY BOARD, COMPLETE (E,PX)	
		**********	
	A-4428-481-A	STBY BOARD, COMPLETE (AEP,UK,CIS,SP,MY)	
		**********	
	A-4428-491-A	STBY BOARD, COMPLETE (AUS)	
		**********	
	A-4428-497-A	STBY BOARD, COMPLETE (CH)	
		**********	
	A-4473-334-A	STBY BOARD, COMPLETE (TW)	
		**********	
	1-533-293-11	FUSE HOLDER	
	1-533-223-11	HOLDER, FUSE	
		< CAPACITOR >	

C922	1-164-159-11	CERAMIC	0.1uF		50V
C923	1-164-159-11	CERAMIC	0.1uF		50V
C950	1-126-936-11	ELECT	3300uF	20.00%	16V
C951	1-164-159-11	CERAMIC	0.1uF		50V
C952	1-126-960-11	ELECT	1uF	20.00%	50V
C953	1-126-957-11	ELECT	0.22uF	20.00%	50V
C954	1-126-964-11	ELECT	10uF	20.00%	50V
C955	1-164-159-11	CERAMIC	0.1uF		50V
C957	1-164-159-11	CERAMIC	0.1uF		50V
C958	1-164-159-11	CERAMIC	0.1uF		50V

Ref. No.	Part No.	Description	Remark
		< CONNECTOR >	
CNP901	1-564-321-00	PIN, CONNECTOR 2P	
* CNP902	1-565-792-11	PIN, CONNECTOR 2P	
CNP906	1-568-106-11	PIN, CONNECTOR 4P(E,PX)	
CNP912	1-691-767-11	PLUG (MICRO CONNECTOR) 5P	
		< DIODE >	
D901	8-719-911-19	DIODE 1SS133T-72	
D910	8-719-024-99	DIODE 11ES2-NTA2B	
D911	8-719-024-99	DIODE 11ES2-NTA2B	
D912	8-719-024-99	DIODE 11ES2-NTA2B	
D913	8-719-024-99	DIODE 11ES2-NTA2B	
D914	8-719-911-19	DIODE 1SS133T-72	
D915	8-719-911-19	DIODE 1SS133T-72	
		< FUSE >	
⚠F901	1-532-504-31	FUSE T4AL 250V(EXCEPT US,CND,TW)	
⚠F901	1-576-193-11	FUSE 6.3A/125V(US,CND,TW)	
⚠F902	1-532-464-31	FUSE T2.5AL 250V(EXCEPT US,CND,TW,E,PX)	
		< TERMINAL >	
* G901	1-537-738-21	TERMINAL, EARTH	
		< IC >	
IC950	8-759-333-83	IC NJM2103D	
		< JACK >	
⚠J911	1-785-285-11	OUTLET, AC (1P)(AC OUTLET)	(DE545:AEP,UK,CIS,SP,MY)
⚠J911	1-251-417-11	OUTLET, A.C.(AC OUTLET)(DE545:AUS)	
⚠J911	1-785-834-11	OUTLET (1P)(AC OUTLET)	(DE545:US,CND,CH,TW,E,PX,SE501)
		< TRANSISTOR >	
Q901	8-729-119-79	TRANSISTOR 2SC2785TP-FEK	
Q951	8-729-045-21	TRANSISTOR 2SD1513TP-LK	
		< RESISTOR >	

R901	1-202-725-00	SOLID	3.3M	10%	1/2W (US,CND)
R902	1-249-437-11	CARBON	47K	5%	1/4W
R903	1-249-425-11	CARBON	4.7K	5%	1/4W F
R950	1-249-421-11	CARBON	2.2K	5%	1/4W F
R951	1-249-428-11	CARBON	8.2K	5%	1/4W F
R952	1-249-422-11	CARBON	2.7K	5%	1/4W F
R953	1-249-433-11	CARBON	22K	5%	1/4W
R954	1-249-437-11	CARBON	47K	5%	1/4W
R955	1-249-429-11	CARBON	10K	5%	1/4W
R956	1-247-843-11	CARBON	3.3K	5%	1/4W
R957	1-249-417-11	CARBON	1K	5%	1/4W F
R960	1-249-431-11	CARBON	15K	5%	1/4W

		< RELAY >	
RY901	1-755-298-11	RELAY	

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STBY **S-VIDEO** **TUNER** **VIDEO**

Ref. No.	Part No.	Description			Remark
		< TRANSFORMER >			
⚠T902	1-435-435-11	TRANSFORMER, POWER (CH,AEP,UK,CIS,SP,MY,AUS)			
⚠T902	1-435-563-11	TRANSFORMER, POWER(TW)			
⚠T902	1-435-434-11	TRANSFORMER, POWER(E,PX)			
⚠T902	1-435-436-11	TRANSFORMER, POWER (DE445/DE545:US,CND,AEP,UK,CIS,SP,MY,SE501)			
**********					
	1-676-782-11	S-VIDEO BOARD (DE545,SE501) **********			
		< CAPACITOR >			
C1501	1-126-964-11	ELECT	10uF	20.00% 50V	(DE545,SE501)
C1502	1-164-159-11	CERAMIC	0.1uF	50V	(DE545,SE501)
C1503	1-126-964-11	ELECT	10uF	20.00% 50V	(DE545,SE501)
C1504	1-164-159-11	CERAMIC	0.1uF	50V	(DE545,SE501)
C1505	1-136-165-00	MYLAR	0.1uF	5.00% 50V	(DE545,SE501)
C1506	1-126-960-11	ELECT	1uF	20.00% 50V	(DE545,SE501)
C1507	1-128-817-11	CERAMIC	470PF	5% 50V	(DE545,SE501)
C1508	1-128-817-11	CERAMIC	470PF	5% 50V	(DE545,SE501)
		< CONNECTOR >			
CNS200	1-569-315-11	SOCKET, CONNECTOR 5P(DE545,SE501)			
		< IC >			
IC1016	8-759-333-84	IC NJM2279D(DE545,SE501)			
		< JACK >			
J1002	1-537-943-11	TERMINAL, S(MONITOR S VIDEO OUT)			(DE545,SE501)
J1003	1-537-943-11	TERMINAL, S(DVD/LD S VIDEO IN)			(DE545,SE501)
		< RESISTOR >			
R1502	1-247-804-11	CARBON	75	5% 1/4W	(DE545,SE501)
R1503	1-247-804-11	CARBON	75	5% 1/4W	(DE545,SE501)
R1504	1-247-804-11	CARBON	75	5% 1/4W	(DE545,SE501)
R1505	1-247-804-11	CARBON	75	5% 1/4W	(DE545,SE501)
**********					

Ref. No.	Part No.	Description			Remark
	1-676-785-11	TUNER SWITCH BOARD **********			
		< CONNECTOR >			
CNS110	1-573-105-11	CONNECTOR, PC BOARD 4P			
		< DIODE >			
D001	8-719-046-39	DIODE SEL5821A-TP15(MUTING)			
		< RESISTOR >			
R001	1-249-411-11	CARBON	330	5% 1/4W	
R002	1-249-413-11	CARBON	470	5% 1/4W	F
R003	1-249-415-11	CARBON	680	5% 1/4W	F
R004	1-249-417-11	CARBON	1K	5% 1/4W	F
R005	1-249-419-11	CARBON	1.5K	5% 1/4W	F
R006	1-249-421-11	CARBON	2.2K	5% 1/4W	F
R007	1-247-843-11	CARBON	3.3K	5% 1/4W	
R008	1-249-425-11	CARBON	4.7K	5% 1/4W	F (AEP,UK,CIS)
R009	1-249-429-11	CARBON	10K	5% 1/4W	(AEP,UK,CIS)
R017	1-247-843-11	CARBON	3.3K	5% 1/4W	
R018	1-249-425-11	CARBON	4.7K	5% 1/4W	F
R019	1-249-429-11	CARBON	10K	5% 1/4W	
R051	1-249-407-11	CARBON	150	5% 1/4W	F
		< SWITCH >			
S100	1-771-410-21	SWITCH, TACTILE(SHIFT)			
S101	1-771-410-21	SWITCH, TACTILE(BASS BOOST)			
S102	1-771-410-21	SWITCH, TACTILE(MUTING)			
S103	1-771-410-21	SWITCH, TACTILE(FM MODE)			
S104	1-771-410-21	SWITCH, TACTILE(PRESET +)			
S105	1-771-410-21	SWITCH, TACTILE(TUNING -)			
S106	1-771-410-21	SWITCH, TACTILE(MEMORY)			
S107	1-771-410-21	SWITCH, TACTILE(TONE)			
S108	1-771-410-21	SWITCH, TACTILE(PTY)(AEP,UK,CIS)			
S109	1-771-410-21	SWITCH, TACTILE(RDS EON)(AEP,UK,CIS)			
S117	1-771-410-21	SWITCH, TACTILE(PRESET –)			
S118	1-771-410-21	SWITCH, TACTILE(TUNING +)			
S119	1-771-410-21	SWITCH, TACTILE(AM/FM)			
**********					
	1-676-781-11	VIDEO BOARD **********			
		< CAPACITOR >			
C1602	1-164-159-11	CERAMIC	0.1uF	50V	
C1603	1-126-964-11	ELECT	10uF	20.00% 50V	
C1604	1-164-159-11	CERAMIC	0.1uF	50V	
C1605	1-128-805-11	CERAMIC	47PF	5% 50V	
C1606	1-128-805-11	CERAMIC	47PF	5% 50V	
C1607	1-126-960-11	ELECT	1uF	20.00% 50V	
C1608	1-126-960-11	ELECT	1uF	20.00% 50V	
C1609	1-126-960-11	ELECT	1uF	20.00% 50V	
C1610	1-164-159-11	CERAMIC	0.1uF	50V	(DE545,SE501)

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Ref. No.	Part No.	Description			Remark
C1611	1-126-965-11	ELECT	22uF	20.00%	50V
C1612	1-126-964-11	ELECT	10uF	20.00%	50V
		< CONNECTOR >			
CNS107	1-691-768-11	PLUG (MICRO CONNECTOR) 6P			
* CNS500	1-564-506-11	PLUG, CONNECTOR 3P			
		< CONNECTOR >			
CNP201	1-569-315-11	SOCKET, CONNECTOR 5P(DE545,SE501)			
		< DIODE >			
D1001	8-719-921-48	DIODE MTZJ-T-72-5.6C(DE545,SE501)			
		< IC >			
IC1014	8-759-701-65	IC NJM79M05FA			
IC1015	8-759-333-84	IC NJM2279D			
		< JACK >			
J1004	1-695-317-11	JACK, PIN 2P(VIDEO IN,MONITOR OUT)			
J1006	1-766-199-11	JACK, PIN 3P(TV/SAT,DVD/LD,VIDEO OUT)			
J1007	1-563-330-11	JACK(CTRL A1 Ⅱ)(DE545,SE501)			
		< RESISTOR >			
R1601	1-247-804-11	CARBON	75	5%	1/4W
R1602	1-247-804-11	CARBON	75	5%	1/4W
R1603	1-247-804-11	CARBON	75	5%	1/4W
R1604	1-247-804-11	CARBON	75	5%	1/4W
R1605	1-247-804-11	CARBON	75	5%	1/4W

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Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS	
		**********	
⚠59	1-696-847-11	CORD, POWER(AUS)	
⚠59	1-777-070-21	CORD, POWER(CND)	
⚠59	1-777-071-21	CORD, POWER(AEP,UK,CIS,SP,MY,E,PX)	
⚠59	1-783-205-11	CORD, POWER(CH)	
⚠59	1-783-820-11	CORD, POWER(TW,US)	
63	1-769-840-11	WIRE (FLAT TYPE) (5 CORE)(DE545,SE501)	
66	1-693-407-41	TUNER(TW,US,CND,E,PX)	
66	1-693-408-41	TUNER(CH,AEP,UK,CIS,SP,MY,AUS)	
67	1-773-001-11	WIRE (FLAT TYPE) (15 CORE)	
⚠68	1-569-008-21	ADAPTOR, CONVERSION 2P(E,PX)	
70	1-500-386-11	FILTER, CLAMP (FERRITE CORE)	
FL101	1-517-929-11	TUBE, FLUORESCENT INDICATOR	
⚠T901	1-435-306-11	TRANSFORMER, POWER(DE545:US)	
⚠T901	1-435-306-21	TRANSFORMER, POWER(SE501)	
⚠T901	1-435-307-11	TRANSFORMER, POWER(DE545:CND)	
⚠T901	1-435-308-11	TRANSFORMER, POWER(DE545:AUS)	
⚠T901	1-435-309-11	TRANSFORMER, POWER (DE545:CH,AEP,UK,CIS,SP,MY)	
⚠T901	1-435-310-11	TRANSFORMER, POWER(DE545:E,PX)	
⚠T901	1-435-312-11	TRANSFORMER, POWER(DE445:CND)	
⚠T901	1-435-313-11	TRANSFORMER, POWER(DE445:US)	
⚠T901	1-435-314-11	TRANSFORMER, POWER(DE445:AEP,UK,CIS)	
⚠T901	1-435-562-11	TRANSFORMER, POWER(DE545:TW)	

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The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.	以阴影和 ⚠ 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。

Ref. No.	Part No.	Description	Remark
		ACCESSORIES & PACKING MATERIALS	
		**********	
	1-418-833-11	REMOTE COMMANDER(RM-U304)(DE445)	
	1-501-374-11	ANTENNA, LOOP	
	1-501-594-11	ANTENNA (FM)	
		(DE545:CH,AEP,UK,CIS,SP,MY,AUS)	
	1-793-184-21	CONNECTOR (F TYPE ADAPTOR)	
		(TW,US,CND,E,PX,SE501)	
	3-866-670-11	MANUAL, COMMONNESS INSTRUCTION	
		(ENGLISH)(DE445:US,DE545:TW,AUS,SE501)	
	3-866-670-21	MANUAL, COMMONNESS INSTRUCTION	
		(ENGLISH,FRENCH,GERMAN,SPANISH,DUTCH)	
		(CND,AEP,UK,CIS,SP,MY,E,PX)	
	3-866-670-31	MANUAL, COMMONNESS INSTRUCTION	
		(DANISH,FINNISH,SWEDISH)(CIS)	
	3-866-670-41	MANUAL, COMMONNESS INSTRUCTION	
		(ENGLISH,ARABIC,CHINESE)(CH)	
	3-866-670-51	MANUAL, COMMONNESS INSTRUCTION	
		(ENGLISH,POLISH,RUSSIAN)(CIS)	
	4-227-692-11	MANUAL, INSTRUCTION(RM-PP404)(ENGLISH)	
		(EXCEPT DE445,DE545:CIS)	
	4-227-692-21	MANUAL, INSTRUCTION(RM-PP404)	
		(FRENCH,SPANISH)(DE545:CND,AEP,UK,E,PX)	
	4-227-692-31	MANUAL, INSTRUCTION(RM-PP404)(CHINESE)	
		(DE545:CH,TW,SP,MY,E,PX)	
	4-227-692-41	MANUAL, INSTRUCTION(RM-PP404)	
		(ENGLISH,POLISH,RUSSIAN)(DE545:CIS)	
	4-227-692-61	MANUAL, INSTRUCTION(RM-PP404)	
		(DUTCH,SWEDISH,GERMAN,ITALISH,POTUGUESE)	
		(DE545:AEP,UK)	
	4-227-692-71	MANUAL, INSTRUCTION(RM-PP404)	
		(GREEK,TURKISH)(DE545:CIS)	
	4-227-987-11	INSTRUCTION MANUAL(ENGLISH)(US)	
	4-227-987-21	INSTRUCTION MANUAL	
		(ENGLISH,FRENCH,SPANISH,CHINESE)	
		(CND,SP,MY,E,PX,AUS)	
	4-227-987-31	INSTRUCTION MANUAL	
		(ENGLISH,CHINESE)(CH,TW)	
	4-227-987-41	INSTRUCTION MANUAL	
		(ENGLISH,FRENCH,DUTCH,SWEDISH)(AEP,UK)	
	4-227-987-51	INSTRUCTION MANUAL	
		(GERMAN,SPANISH,ITALIAN,POTUGUESE)(AEP,UK)	
	4-227-987-61	INSTRUCTION MANUAL	
		(DANISH,FINNISH)(AEP,UK)	
	4-227-987-71	INSTRUCTION MANUAL	
		(ENGLISH,RUSSIAN,POLISH)(CIS)	
	4-227-987-81	INSTRUCTION MANUAL(GREEK,TURKISH)(CIS)	
	4-228-696-01	COVER, BATTERY(FOR RM-U304)(DE445)	
	4-978-977-01	COVER, BATTERY(FOR RM-PP404)	
		(DE545,SE501)	
	8-917-423-90	REMOTE COMMANDER RM-PP404 SET	
		(DE545,SE501)	
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Ref. No.	Part No.	Description		Remark
		**********		
		HARDWARE LIST		
		**********		
#1	7-685-646-79	SCREW +BVTP	3X8	TYPE2 IT-3
#2	7-685-646-91	SCREW +BVTP	3X8	TYPE2 TT(B)
#3	7-685-645-79	SCREW +BVTP	3X6	TYPE2 N-S
#4	7-685-881-09	SCREW +BVTT	4X8	(S)

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